

INDEX

Forty-first Quarto Volume—July 1, 1906, to December 31, 1906

AUTHORS

- Acworth, W. M., 78 (G. N. S.), 359
Akerman, Alfred, 470
Arnold, B. J., 44
Aspinall, J. A. F., 323
- Barker, S. H., 263
Bates, Lindon, Jr., 97
Bates, P. A., 185
Beecham, W. E., 113
Bell, G. P., 113
Bell, J. S., 52
Bement, A., 335
Bennett, L. E., 199
Bihler, L. C., 331
Buel, A. W., 123
Busse, M. O., 83
- Carman, A. P., 446
Caruthers, C. H., 141, 163, 213, 443
Churchill, C. S., 246
Clarke, H. W., 114
Cornell, H., 379
Cuenot, M. G., 128
- Dalby, H. A., 106
Daly, J. M., 112, 113, 114
Damon, G. A., 485
Daniels, W. M., 308
Delano, F. A., 327
De Knight, E. W., 146
De Voy, J. F., 236
Drew, P. W., 114
- Elliott, A. J., 195
Emerson, Harrington, 461
Ewings, C. H., 114
- Farmer, C. C., 197
Fay, T., 548
Flite, E. D., 226
Flory, B. F., 392
Forman, H. W., 114, 135, 155, 174
Fowler, G. L., 53, 238, 344
Fry, C. H., 476, 504
- Goodnow, C. A., 549
Goss, W. F. M., 489
Green, J. A., 547
Guarini, Emile, 309
- Hadley, A. T., 485
Hannaford, J. M., 156 (G. N. S.)
Hansel, Charles, 547
Harriman, E. H., 140 (G. N. S.), 537
Haslam, S. B., 310
Hays, C. M., 94 (G. N. S.)
Hill, J. J., 441
Hinkens, G. F., 202
Hoff, W., 206, 273, 530
Hoy, W. W., 119
Hutchins, F. L., 94
- Jackson, Luis, 156 (G. N. S.)
Job, Robert, 54, 467
Johnson, T. H., 402
- Kahn, J., 451
Kapp, S. W., 562
Kearney, J. R., 113
Kerbey, Major J. O., 107
Killick, Prince, 134
Knowlton, H. S., 96
- Lasscell, W. B., 260
Leve, G., 52
Livingstone, John, 93
- McCarty, H. C., 118
McLean, S. J., 17
McPherson, L. G., 509
McVeigh, E. J., 143, 557
Macdonald, J. A., 46, 442
MacEnulty, J. F., 513
Mahl, William, 438
Mayer, Joseph, 428, 451, 464
Mellin, C. J., 102
Mitchell, T. W., 9
Moore, Robert, 249
Morris, Ray, 60
- North, E. P., 261
- Ommelange, E., 271
- Paley, W. B., 117, 140
Park, W. L., 548
Parker, E. W., 474
Paul, C. A., 370
Perkins, A. T., 249
Petre, F. L., 389
Porter, H. T., 348
Prout, H. G., 507
- Rawlins, F. S., 113
Raymond, W. G., 138, 217
Redpath, William, 112
Rehmeyer, O. H., 372
- Riches, T. H., 310
Ripley, E. P., 125, 162
Ripley, W. Z., 266
- Sanderson, R. P. C., 42
Schwabach, F., 206, 273, 530
Scott, C. H., 501
Sesser, J. C., 561
Smith, M. H., 179 (G. N. S.)
Smith, W. H., 224
Snyder, G. W., 341
Spencer, Samuel, 511
Spera, Ing. Comm. Giuseppe, 177
Sprague, F. J., 487
Stalbridge, Lord, 289
Still, F. R., 539
- Thornton, H. W., 182
Thomas, F. W., 237
Thompson, Slason, 569
Todd, Charles B., 324
- Upcott, Sir Frederick R., 456, 482
- Van Alstyne, D., 66
- Walker, H. T., 153
West, G. W., 29
White, Sir William H., 56
Williams, R. D., 365
Winston, G. B., 430
Wolff, X., 113
Woolley, W. E., 29
Wrenne, M. J. C., 113

GENERAL INDEX

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡; General News Section References thus (G. N. S.).]

- A**
- Accidents:
 B. & O. Woodville, Ind., 421‡, 436, 501‡
 Burlington, N. J., in 1855, 63*
 Canadian Pacific, Sudbury, Ont., 72 (G. N. S.), 326‡
 C. R. I. & P., Dover, Okla. T., 72 (G. N. S.)
 Dynamite Disaster at Jellico, Tenn., 78 (G. N. S.)
 Gov't Bulletins: No. 19, 169‡, 178‡; No. 20, 421‡, 432‡
 Great Britain in 1905, 192‡
 Gr. Northern (Eng.) at Grantham, 78 (G. N. S.), 575
 Killing Trackmen, 130‡
 Light Cars Between Heavy Cars and Engine, 169‡
 M. St. P. & S. S. M. at Enderlin, N. Dak., 179 (G. N. S.)
 Monthly Summaries: June, 1906, 72‡, 82‡; July, 1906, 171‡, 187‡; Aug., 1906, 255‡, 272‡; Sept., 1906, 353‡, 363‡; Oct., 1906, 472‡, 483‡; Nov., 1906, 508‡, 578‡
 North Wales Narrow Gauge, at Nantmhill, 280‡
 Penna. R. R. at Atlantic City, 373‡, 396, 405
 Penna. R. R. at Edgington, 326‡, 350‡
 Salisbury, England, Derailment, 1 (G. N. S.), 13 (G. N. S.), 328‡
 Southern Ry., Lawyer, Va., 493‡, 501, 517‡, 519‡, 524‡
 When Brakes Fail to Work, 326‡
 Wind Blows Train from Track, 147 (G. N. S.)
- Acetylene (See Lighting)
- Adams, Charles Francis, 485
- Adams Express Co.:
 Operations of, 70‡
- Africa:
 Cape to Cairo Project, 131‡
- Air Brake (See Brake)
- Air Compressor (See Compressed Air)
- Alaska-Yukon-Pacific Exposition, 180 (G. N. S.)
- Allegheny Portage R. R., 163*
- American Brake Co.:
 Auxiliary Driver Brake Cylinder, 88*
 American Car & Fdy. Co.:
 Annual Report, 28‡
 American Car Co.:
 Observation Car for Manitou & Pike's Peak, 66*
- American Express Co.:
 Operations of, 70‡
- American Locomotive Co.:
 Annual Report, 286‡
 Cole 4-Cyl. Bal. Comp. Pacific Locomotive, Northern Pacific, 406*, 530*
 Elec. Locomotive for Gen. Elec. Co., 580*
 Mallet Compound for the Erie, 325‡, 389*
 Mogul Locomotive for Panama Canal, 58*
 Narrow-Gauge Compound for Kansai Ry., 560*
 Six-Wheel Switching Locomotive for P. & L. E., 98*
 Tank Locomotive, Kinsu Ry., 431*
- American Railway Association:
 Fall, 1906, Session, 373‡, 384
- American Railway Master Mechanics' Association:
 1907 Conventions, 119 (G. N. S.), 29‡
- American Steam Gauge & Valve Manufacturing Co.:
 Dead-weight Gauge Tester, 42* (G. N. S.)
- American Street & Interurban Railway Assoc.:
 Annual Convention, 360
 Convention Exhibits, 339
- Anti-Creeper (See Rail)
- Annual Meetings (See Corporation Names)
- Annual Reports (See Corporation Names)
- Arch (See Bridge)
- Argentine Republic, Proposed Government Ownership, 302‡
- Association (See Association Names)
- Assoc. of Ry. Superintendents of Bridges and Buildings:
 Annual Convention, 355
- Assoc. of Transportation & Car Accounting Officers:
 Meeting, 525
- Atchison, Topeka & Santa Fe:
 Annual Report, 280‡
 Bal. Comp. Prairie Locomotive, 414*
 Change in Route of Through Line, 193‡
 Organization, 558*, 569‡
 Pres. Ripley on Two-Cent Fares, 109‡, 125
 Pres. Ripley's Answer to Criticisms, 162
 Shop Betterment, 476‡, 495‡, 504*
- Australia:
 Increased Facilities and Earnings of R. R.'s, 3 (G. N. S.)
 Projected Transcontinental Railroad, 156
- Austrian State Railroads:
 Passenger Earnings and Expenses, 19
- Automobile:
 London & North Western Steam Lorry, 452*
 North-Eastern Ry. (Eng.), 17‡
 Transcontinental Automobile Record, 42 (G. N. S.)
 Wear of Roads by, 262
- Avent, Frank, 156 (G. N. S.)
- B**
- Baldwin Locomotive Works:
 Atlantic Locomotive, Gr. Northern, 371*
 Bal. Comp. Prairie Locomotive, A. T. & S. F., 414*
 Mallet Compound for Great Northern, 148*, 315*
 Mogul for Philippine Ry., 439*
 Pacific Locomotive, Gr. Northern, 371*
 Prairie Locomotive, Gr. Northern, 371*
 Rack Locomotive, Manitou & Pike's Peak, 40*, 108*
 Symons Cast Steel Trucks, 74*
- Ballast (See Maintenance of Way)
- Baltimore & Ohio:
 Annual Report, 353‡*
 Collision at Woodville, Ind., 421‡, 436, 501‡
 Proposed Station at Wheeling, W. Va., 8*
 Sale of Stock by Penna. R. R., 190‡, 230‡
 Three-Position Semi-Automatic Signals, 288*
 Track Inspection Car, 390*, 402‡
 Washington Union Station, 100*
- Bavarian State Rys.:
 Four-Cylinder Comp. Locomotive, 185*
- Bearing (See Journal Bearing)
- Belgian State R. R.'s:
 Operating Statistics, 543‡
- Belgium:
 Gov't Ownership, 190‡
 Railroads, Impressions of a South African R. R. Officer, 119
 Railroads in, 309
- Bessemer & Lake Erie:
 Consolidation Freight Locomotive, 345*
 Metal Ties on, 548
- Bignall & Keeler Manufacturing Co., Rolling Pipe Cutter, 118* (G. N. S.)
- Bixby Hotel, Collapse of, 451‡
- Bliss Electric Car Lighting Co.:
 Train Line Coupler, 24*
- Blue Print Machine, Everett-McAdam, 118* (G. N. S.)
- Bohemia: Plauen Viaduct, 271*
- Boller (See Locomotive Boller)
- Bolivia:
 Eastern Bolivian R. R., 443
 Railroad Projects, 157 (G. N. S.)
- Bonds (See Finance)
- Boston Terminal on Labor Day, 102 (G. N. S.)
- Boston & Albany:
 Position in New England Territory and Passenger Rates, 50‡
 South Station, Boston, 422‡
- Boston & Maine:
 Annual Report, 256‡
 Position in New England Territory and Passenger Rates, 50‡
- Boston & Worcester Street Ry.:
 Results of Operation, 96
- Boston Elevated Ry.:
 Results of Operation, 96
- Brake (See also Safety Appliance Act):
 Angle Cock Accidentally Closed, 326‡
 Auxiliary Driver Brake Cylinder, 88*
 Braking Power for Freight Cars, 112‡
 Handling Air Brake in Passenger Train Service, 197
 Proportioning Brake Shoe Pressures to Wheel Loads, 25‡
 Standard Air Brake Hose, 287
 Test of Locomotive Air Pumps, 47*
 When Brakes Fail to Work, 326‡
- Brasses (See Journal Bearing)
- Bridge:
 Concrete Arch, on the C. C. C. & St. L. at Danville, Ill., 30*
 Concrete Covered Girder Foot-bridge, 96*
 Cylinder Pier Reinforcement, St. Louis Southwestern, 149‡, 180*
 Drawbridge Floors and Locks, 434
 Electric Drawbridge, Velsen, Holland, 173*
 Galveston Causeway, 184
 K. C. M. & O. South Canadian River, 225*
 Quebec, Progress of, 101 (G. N. S.)
 Raising of Canal Bridge at Schenectady, N. Y., 240*
 Reinforced Concrete Arch, Wabash, over Sangamon river, 556*
 Strauss Ribbed Concrete Steel, Elgin-Belvidere Elec. R. R., 220*
 Syrtal Viaduct, Plauen, Bohemia, 271*
 Uniform Live Loads; and Shearing Stress in Webs of Plate Girders, 123*
 Union Pacific, North Platte River, 524*
 Union Pacific on Omaha Cut-off, 550*
 Wreck of the Interstate Bridge Draw-Span, at Duluth, 176*
 Zambesi River, 440*
- British (See also England; also names of Railroads):
 Accidents in 1905, 192‡
 American View of British Railways, 60
 Carriage and Delivery System, 445‡, 452*
 Power Signaling in England and Scotland, 55
- Brooklyn:
 Single Fare to Coney Island, 129‡
- Brooklyn Rapid Transit:
 Obstruction to, 32‡
 Single Fare to Coney Island, 129‡
- Brotherhood of R. R. Trainmen:
 N. Y., N. H. & H. Strike, 132‡, 152‡
- Buda Fdry. & Manufacturing Co., Lining-Up Jack, 148* (G. N. S.)
- Buffalo, Rochester & Pittsburg:
 Annual Report, 153‡
- Bumping Post, Steel, D. L. & W., 436*
- Bundy Poultry Car, 412*
- C**
- Canada:
 Hill Invasion, 17, 46, 313
 Hill on Reciprocity, 441
 Railroad Expansion, 17, 313
 Railroad Notes, 87
 Railroads, Impressions of a South African R. R. Officer, 119
 Two-Cent Fares, 147 (G. N. S.)
- Canadian Northern:
 Annual Report, 473‡*
 Competitive R. R. Building, 277‡, 313
 Construction Under Way and Projected, 17
- Canadian Pacific:
 Annual Report, 259‡
 Collision near Sudbury, Ont., 72 (G. N. S.), 326‡
 Competitive R. R. Building, 277‡, 313
 Construction Under Way and Projected, 17
 New Steamers, 144
 Schmidt Superheater, 124*
 Steam Motor Car, 57*
- Canadian Pacific Car & Passenger Transfer Co.,
 New Ferry Steamer, 126 (G. N. S.)
- Canals:
 Canals and the Railroads from 1861 to 1865, 226
 Cape Cod, 169 (G. N. S.)
 Erie; Status of Enlargement Work, 78 (G. N. S.)
 Panama (See Panama Canal)
 Sault Ste. Marie, September Traffic, 109 (G. N. S.)
- Canton-Hankow R. R.:
 Passenger Equipment, 324*
- Cape to Cairo, 131‡
- Zambesi River Bridge, 440*
- Car Accountants (See Assoc. of Transportation and Car Accounting Officers)
- Car:
 Auto (See Motor Car)
 Canton-Hankow Equipment, 324*
 Cleaning, 392*
 Decoration, Old Styles of, 443*
 Gasoline (See Motor Car)
 Head Linings and Roofs of Indestructible Fibre, 77 (G. N. S.)
 Kansas Fish and Game Commission, 532*
 Lighting (See Lighting)
 Motor (See Motor Car)
 Observation, Manitou & Pike's Peak, 66*
 Output in 1906, 565‡
 Poultry, 412*
 Rail Motor (See Motor Car)
 Refrigerator, for Harriman Lines, 231‡
 Repairs to Steel, 513*
 Shortage (See Car Service)
 Standard Steel Coach for Harriman Lines, 292‡
 Status of M. C. B. Standards for Protection of Trainmen, 244
 Steel Gondola, Newburgh & South Shore, 554*
 Steel Passenger for Southern, 342*
 Steel Passenger, Penna. R. R., 146*
 Steel, Philadelphia Rapid Transit, 342*
 Steel Suburban Motor Car, N. Y. C. & H. R., 295*
 Steel Underframe Stock, Cent. of N. J., 403*
 Steel, United of San Francisco, 342*
 Track Inspection, B. & O., 390*, 402‡
 Western Union Telegraph Co., Private Car, 335*
 West Jersey & Seashore Electric Motor Cars, 417*
 Wheel (See Wheel)
 Window (See Window)
- Car Heating:
 Parker System, 122*
 Storage System for Heating Refrigerator Cars, 275*
- Car Hire (See Car Service)
- Car Lines (See Private Car Lines)
- Car Service (See also Interstate Commerce Commission):
 Car Shortage, 493‡
 Car Shortage, Government Investigation, 155 (G. N. S.)
 Car Shortage in Northwest, 541‡

- Car Service (Continued):**
 Demurrage and Private Sidings, 236
 Diversion: Principles Needed in Reforming
 Present Practice, 37, 193
 Economic Wastes in Transportation, 266
 Freight Car Frauds, 14 (G. N. S.)
 Golden Rule and Iron Rule with Foreign
 Freight Cars, 37, 193
 How Best to Get Cars Through Large Ter-
 minals, 224
 Per Diem Agreement by U. S. Steel Subsidiaries, 149
 Per Diem, Increase, 373, 384, 421, 431, 157
 (G. N. S.)
 Relation of Warehousing to Transportation,
 195
 Shortage of Passenger Cars, 212
 Ways and Means to Maintain Car Supply, 331
 Why Freight Cars Don't Move, 547
 Wrongful Diversion of Foreign Freight Cars,
 112, 130, 566
Car Shortage (See Car Service)
 Carnegie Steel Tie, 64
 Cassatt, A. J., 19
 Central R. R. of Georgia:
 Annual Report, 172
 Central R. R. of New Jersey:
 Car Cleaning, 392
 Drawbridge Floors and Locks, 434
 Steel Underframe Stock Car, 403
Chesapeake & Ohio:
 Annual Report, 231
Chicago:
 Rapid Transit In, 44
 Street Railway Situation, 567, 574
 Terminals, 301
Chicago & Alton:
 Annual Report, 306
Chicago & Eastern Illinois:
 Extensions to Oaklawn Shops, 388
Chicago & North-Western:
 Annual Report, 212
 Increase in Capital Stock, 149
 New Passenger Terminal at Chicago, 301,
 314
Chicago, Burlington & Quincy:
 Annual Report, 354
 Prairie Type Freight Locomotive, 344
 Reinforced Concrete Culvert Pipe, 309
Chicago City Railway, 567, 574
Chicago Great Western:
 Annual Report, 258
Chicago, Indiana & Southern:
 Gibson Yard, 262
 Gravel Washing Plant, 190, 214
Chicago, Milwaukee & St. Paul:
 Annual Report, 304
 Increase in Capital Stock, 149, 542
 Pacific Extension, 237, 291, 304, 538
 Status of R. R. Building in Washington, 291
Chicago, Rock Island & Pacific:
 Annual Report, 284
 Brown's Discipline, 94
 Commerce Counsel, 373
 New Freight Terminal at St. Louis, 322
 Wreck near Dover, Okla. T., 72 (G. N. S.)
Chicago, St. Paul, Minn. & Omaha:
 Annual Report, 259
Chicago Union Traction, 567, 574
China:
 Railroads in, 125
 Status of Railroads in, 338
Cincinnati, Hamilton & Dayton:
 Annual Report, 399
 Organization and Construction Methods at
 Ivorydale Shops, 242
 Results of Receivership, 398
Cincinnati, New Orleans & Texas Pacific:
 Manual and Automatic Block Signals, 86
Cleveland, Cincinnati, Chicago & St. Louis:
 Concrete Arch Bridge at Danville, Ill., 30
Coal (See Fuel)
College (See Names)
Colorado & Southern:
 Annual Report, 283
 Wind Blows Train from Track, 147 (G. N. S.)
 Colorado River Diversion into Salton Sink, 144,
 420, 180 (G. N. S.)
Columbian Railroads, 389
Columbia University: Evening Technical Courses,
 140 (G. N. S.), 156 (G. N. S.)
Combination:
 Trade and Railroad Combination, 170
Competition:
 Economic Wastes in Transportation, 266
Compressed Air:
 Air Power Plants, Penna. R. R., East River
 Tunnels, 77
 Sullivan Air Compressor, 252
 Test of Locomotive Air Pumps, 47
Concrete (See also Concrete, Reinforced)
 Pipe Protecting Piles from Terezo, 137
Concrete, Reinforced:
 C. C. C. & St. L. Bridge at Danville, Ill., 30
 Culvert Pipe, C. B. & Q., 309
 Cylinder Pier Reinforcement, 169, 180
 Origin of, 20
 Strauss Ribbed Concrete Steel Bridge, Elgin-
 Belvidere Elec. R. R., 220
 Use of Concrete Piles, 238
 Wabash Bridge over Sangamon River, 556
Connecticut:
 Early Hostility to Railroads, 324
 Connecticut Ry. & Lighting Company, 543
Connecticut State R. R. Commission:
 Personnel and Record, 229
Consolidated Railway (See also N. Y., N. H. & H.):
 Debenture Bonds, 191
Construction, New:
 Canadian Roads, Under Way and Projected, 17
 Competition in Canada, 277, 313
 Cost of Steam Shovel Work, 561
 Engineer-Constructor, 485
 Omaha Cut-off, Union Pacific, 549
 Railroad Built in 1906, 565, 572
 St. Paul's Pacific Extension, 237, 291, 304, 538
Construction, New (Continued):
 Status of R. R. Building in Washington, 291
 Unit Costs of Railroad Building, 189, 203, 372, 438, 462
 Western Pacific, 270
Conventions (See Names)
Conveying Machinery (See Hoisting & Conveying)
 Co-operation, 170, 182
 Copying Machine, Schapograph, 156 (G. N. S.)
 Corporations, Public Opinion Toward, 470
Cost of Construction:
 Unit Costs, 189, 203, 372, 438, 462
 Wash. R. R. Commission Investigation, 302
 Coupler, Bliss Electric Train Line, 24
 Creosote (See Timber)
 Cridland Locomotive Exhaust Deflector, 2, (G. N. S.)
 Crocker-Wheeler Co.:
 Generator for Collinwood Shops, Lake Shore,
 132 (G. N. S.)
 Cunard Line, New Steamers, 56
 Curtain Fixtures:
 National, 66 (G. N. S.)
 Curve Resistance, 138
 Cylinders:
 Ballistic Test of Cast Steel, 529
D
 Danish State Rys., 4-Cyl. Comp. Express Locomotive, 533
 Delaware, Lackawanna & Western:
 Acetylene Generating Plant, 145
 Bumping Post, 436
 Drawbridge Floors and Locks, 434
 De La Vergne Refrigerating Co.:
 Hornsby-Akroyd Engines, 707, 84
 Demurrage (See Car Service)
 Denver & Rio Grande:
 Annual Report, 330
 Denver, North Western & Pacific:
 Rotary Snow Plow, 578
 Detroit & Mackinac:
 Annual Report, 401
 Differentials (See Freight Rates)
 Discipline (See Employee)
 Dividend (See Finance)
 Dodge System of Coal Storage, 435
E
Earnings, Railroad (See also Corporate Names):
 August, 1906, Increases, 315
 Gross, of Railroads, in May, 51
 Important Roads, in Year 1905-1906, 210
 I. C. C. Report, 147 (G. N. S.)
 Of Larger Roads for Eleven Months ended May
 31, 7 (G. N. S.)
 Since June 30, 1906, 469
Economic Wastes in Transportation, 266
Education:
 Evening Technical Courses at Columbia, 140
 (G. N. S.), 156 (G. N. S.)
 Southern Pacific School for Shopmen, 109 (G. N. S.)
 University Education for R. R. Work, 553
Electric Railroads (See also Electrified Steam):
 English Experience, 196
 Interchange of Traffic with Steam Roads, 370
 N. Y., N. H. & H., Control of, 149
 Results of Operation in Massachusetts, 96
 Steam and Trolley in Massachusetts, 267
 Texas Traction Co., 178 (G. N. S.)
Electric Traction:
 Discussion of Papers, Street and Interurban
 Ry. Convention, 360
 Electrolysis of Underground Pipes, 185
 Hill Lines, 49
 Locomotive (See Locomotive, Electric)
 Single Phase Equipment for W. B. & A., 313
 Steam and Electric Locomotive Power, 421,
 428, 451
 Steam vs. Electric Operation, 464, 487
 Third Rail vs. Overhead Construction, 487,
 537
Electrified Steam Railroads:
 England, 196
 Great Western (Eng.), 53
 Hammersmith & City (Eng.), 53
 Liverpool & Southport (Eng.), 302, 323
 London & North-Western, 289
 N. Y. C. & H. R. at New York, 277, 293, 164
 (G. N. S.)
 N. Y., N. H. & H., Progress, 277
 Rochester Division of Erie, 116
 Southern Pacific in Oakland, 502
 Steam vs. Electric Operation, 302, 464, 487
 West Jersey & Sea Shore, 72 (G. N. S.), 415
Electrolysis of Underground Pipes, 185
Elgin-Belvidere Electric R. R.:
 Strauss Ribbed Concrete Steel Bridge, 220
 Elkins Law, Neglect of, 29
Employee (See also Train Rules):
 Brown's Discipline on the Rock Island, 94
 Conductor's Attitude Toward Passenger, 212
 Employers' Liability Law, 430
 How to Treat Purchasers of Tickets, 78 (G. N. S.)
 Killing Trackmen, 130
 New York Municipal Ferry, 34 (G. N. S.)
 Payment of Freight House Men on Penna. R. R., 93
 Philippine Railroad Laborers, 199
 Profit Sharing, 178 (G. N. S.)
 Some Good Office Boys, 65 (G. N. S.)
 Status of M. C. B. Standards for Protection of
 Trainmen, 244
 Time Limit: 16-Hour Bill, 1
 Track Foreman, 562
 Wages, Increase on Various Roads, 374, 133
 (G. N. S.), 141 (G. N. S.)
 Wages Increased, Penna. R. R. and P. & R.,
 402
 Working Hours of English Signalmen, 140 (G. N. S.)
Engine (See also Locomotive):
 Generator for Collinwood Shops, Lake Shore,
 132 (G. N. S.)
 Hornsby-Akroyd Kerosene and Fuel Oil En-
 gine, 707, 84
 Internal Combustion for Shop Power, 707,
 84
 Lidgetwood Derrick Engine, 8 (G. N. S.)
 Small Vertical High Speed, 539
Engineer-Constructor, 485
Engineer, Relation to Society, 507
England (See also British; also London; also
names of railroads):
 Electric Lines, 196
 Labor Agitation in, 334
 Rail-Motor-Car Traffic, 310
 Railroads, Impressions of a South African
 R. R. Officer, 119
 Underground Telegraph, 2 (G. N. S.)
 Working Hours of Signalmen, 140 (G. N. S.)
Erie R. R.:
 Annual Report, 522
 Electrical Equipment of Hornell Shops, 518,
 526
 Electrification of Rochester Division, 516
 Industrial Development, 156 (G. N. S.)
 Mallet Compounds, 325, 389
 Everett-McAdam Blue Printing Machine, 118 (G. N. S.)
F
Fare (See Passenger Rates)
Fast Trains and Runs:
 Penna. R. R., Harrisburg to Altoona, 396
 P. C. C. & St. L., 148 (G. N. S.)
 Record of, During Past 26 Years, 394
 Transcontinental Automobile Record, 42 (G. N. S.)
Federal (See Government)
Ferry:
 Car Ferry Steamer for St. Lawrence River,
 126 (G. N. S.)
 Long Island R. R. Ferry Boat "Babylon," 65
 (G. N. S.)
 New York Municipal, 34 (G. N. S.)
Finance:
 Aspects of New Railroad Capitalization, 446
 Corporation Investments of Corporation Offi-
 cers, 2
 Elements of Value in a Street Railway, 567
 Gt. Northern Ry. Ore Deal, 301
 Green Bay & Western Reorganization Plan,
 349
 Gross Earnings and Dividends of Larger
 Roads, 210
 Harriman Dividends, 151
 How the Pennsylvania Declares Its Dividends,
 117 (G. N. S.)
 Illinois Central Control, 89, 351, 397
 Minority Stockholders and the Hocking Val-
 ley Consolidation, 110
 N. Y., N. H. & H., Absorption of Branch Lines,
 191
 N. Y., N. H. & H. Control of Electric Lines,
 149
 Penna. R. R. Sale of B. & O. Stock, 190
 Penna. R. R., W. M. Acworth on, 359
 R. P. Bonds Held by Yale University, 278
 Ramsey Electric Line from New York to Pitts-
 burg, 189
 Receiverships and Foreclosures in 1906, 566
 Status of Holding Corporation, 327
 Tight Capital, 518
 Types of Railroad Mortgages, 9
 Wabash Finances, 327
 Wash. R. R. Commission Investigation of
 Cost of Construction, 302
 Wells Fargo: Effort to Get Larger Dividends,
 70
Finley, W. W., 533
Fireman (See Employee)
 Fish, Stuyvesant, 297
 Fitzgerald, James, 133 (G. N. S.)
 Flagg (See Train Rules)
 Flaman Speed Indicator, 250
 Flange (See Wheel)
 Football Travel, Penna. R. R. and N. Y., N. H. &
 H., 494, 502
Foreclosures (See Receiverships)
Forest (See Timber)
France:
 Railroad Earnings in 1905, 136
 Railroads, 14-Year Comparison, 517
 Railroads, Impressions of a South African R.
 R. Officer, 119
Freight:
 British Cartage and Delivery System, 445
 Economic Wastes in Transportation, 266
 Hutchins' Freight Arrival Record Forms, 94
 Proposed New Bill of Lading, 180 (G. N. S.)
 Rates (See Freight Rates)
 Uniform Classification of, 229
Freight House:
 Grand Trunk at Toronto, 588
 Mo. Pac. at Kansas City, 265
Freight Rates (See also Government Rate Regula-
tion; also Interstate Commerce Commis-
sion; also State R. R. Commissions):
 Cotton, Export, Rates on, 72 (G. N. S.), 253,
 397
 Economic Wastes in Transportation, 266
 Fruit Classification, 449
 Gt. Northern Reductions During Fiscal Year,
 117 (G. N. S.)
 I. C. C. Rulings, 331
 New York Central Sugar Shipments, 101 (G.
 N. S.), 110 (G. N. S.), 349, 164 (G. N. S.)
 Posting of Tariff Schedules, 92, 325
 Rebates: Convictions and Suits Pending, 278
 Reduction, 287
 Results of Government Interference, 178 (G.
 N. S.)
 Simplification of Tariffs, 275
 Through Rates Higher than Sum of Locals,
 139 (G. N. S.), 501

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡; General News Section References thus (G. N. S.).]

Freight Yards (See Yards and Terminals)
 Fruit:
 Classification, 449‡
 Cooling for Shipment, 156*
 Fuel:
 Anthracite Coal Storage, 435*
 Anthracite Fields of Pennsylvania, 76*
 Anthracite Production in Pennsylvania Since 1820, 76*
 Bituminous Coal Carried by Various Roads in 1905, 475
 Famine in Northwest, 541‡
 Oil Burning Furnace, Manitou & Pike's Peak Locomotive, 41*
 Steam Shovels in Anthracite Mining, 168*
 Testing Coal, 335
 Fundamentals, 470‡

G

Gage:
 American Dead Weight Gage Tester, 42* (G. N. S.)
 Gage:
 India, R. R. Gages of, 456*, 482
 Galveston Causeway Plans, 184
 Gasoline Car (See Motor Car)
 General Electric Co.:
 Electric Locomotive for, 580*
 Single-Phase Equipment for W. B. & A., 313
 General Railway Signal Co.:
 Contracts, 72 (G. N. S.)
 Georgia State R. R. Commission, Power to Regulate Train Schedules, 494‡, 501
 Germany:
 Metal Ties, 209‡
 Railroads, Impressions of a South African Railroad Officer, 119
 Tax on R. R. Tickets, 27‡
 View of American Railroads, 206, 273, 530
 Gilder (See Bridge)
 Gold Car Heating & Lighting Co.:
 Storage System for Heating Refrigerator Cars, 275*
 Gov't Control of R. R.'s, 179 (G. N. S.)
 Freight Rates (See Gov't Rate Regulation)
 Gov't Ownership:
 Argentina Republic, 302‡
 Belgium, 190‡
 First R. R. Owned and Operated by a Government, 163*
 Italy, 7 (G. N. S.), 170‡, 177
 Japan, 22 (G. N. S.)
 Pennsylvania, 163*, 348
 Government Rate Regulation (See also Freight Rates; Interstate Commerce Commission; Rate Law):
 Logical Results, 178 (G. N. S.)
 Neglect of Elkins Law, 29
 Grab Irons (See Safety Appliance)
 Grade Crossing (See also Grade Separation):
 New York State; Responsibility for Conditions, 109‡, 129‡
 Grade Separation:
 New York State, 234*
 P. Ft. W. & C., at Chicago, 4*
 Yonkers, N. Y., 233‡
 Grain:
 Chicago Grain Elevators, 148
 Fast Loading of Steamers, 528*
 Grand Trunk:
 Battle Creek Station, 342*
 New Freight Terminal at Toronto, 588
 Parker Car-Heating System, 122*
 Grand Trunk Pacific:
 Competitive R. R. Building, 277‡, 313
 Construction Under Way and Projected, 17
 Route of, 178 (G. N. S.)
 Gravel Washing Plants on Lake Shore, 190‡, 214*
 Great Britain (See British)
 Great Northern Railway:
 Annual Report, 424*
 Canadian Extension, 17, 46, 313
 Locomotives: Prairie, Pacific, Atlantic, 371*
 Mallet Comp. Locomotive, 148*, 315*
 New Capital Stock, 542‡, 180 (G. N. S.)
 One Deal, 304‡
 Rate Reduction During Fiscal Year, 117 (G. N. S.)
 Status of R. R. Building in Washington, 291*
 Great Northern of England:
 Diamond Jubilee; History, 117*
 Locomotive of 1865, 154*‡
 Locomotive Exhaust Deflector, 2* (G. N. S.)
 Reminiscences of, 153‡
 Wreck at Grantham, 78 (G. N. S.)
 Great Southern & Western (Ireland) Motor Car, 311*
 Great Western (England):
 Electrification, 53
 Green Bay & Western:
 Bondholders' Protective Committee, 349‡

H

Hammersmith & City (Eng.) Electrification, 53
 Hannah, Gen. H. H., 156 (G. N. S.)
 Hannoversche Maschinenbau Aktien Gesellschaft:
 Locomotive for Prussian State Rys., 160*
 4-Cyl. Bal. Comp. Locomotive, Danish State Rys., 533*
 Harriman, E. H., Illinois Cent. Control, 89‡, 351‡, 357‡
 Harriman Lines:
 Refrigerator Cars, 231‡
 Signal Scheme for 1907, 575*
 Standard Steel Coach, 292*
 Status of R. R. Building in Washington, 291*

Hartford & New Haven, 324
 Hayden, W. H., 169 (G. N. S.)
 Heating (See Car Heating)
 Hepburn Law (See Rate Law)
 Hicks, F. M., & Co. (See Hicks Loco. & Car Wks.)
 Hicks Locomotive and Car Works:
 Bundy Poultry Car, 412*
 Car for Kansas Fish and Game Commission, 532*
 Incorporation; History of Predecessor, 22*
 Staybolt Threading Machine, 22*
 Western Union Tel. Co. Private Car, 335*
 Hill Lines:
 Building in Canada, 17, 46, 313
 Electric Traction on, 49‡
 Status of R. R. Building in Washington, 291*
 Hobson Wrench, 22* (G. N. S.)
 Hocking Valley:
 Annual Report, 286‡*
 Consolidation with Kanawha & Michigan, 110‡
 Hoisting and Conveying:
 Hulet Car Dumper, 356*
 Lidgerwood Derrick Engine, 8* (G. N. S.)
 Honduras, Railroad Journey in, 168
 Hornsby-Akroyd Kerosene and Fuel Oil Engine, 70‡, 84*
 Hose:
 Standard Air Brake Hose, 287
 Hudson River Day Line Steamer "Hendrik Hudson," 197*
 Hulet Car Dumping Machine, 356*
 Hutchin's Freight Arrival Record Forms, 94*
 Hydraulic (See Machine Tools)

I

Illinois Central:
 Annual Report, 426‡*
 Fish vs. Harriman, 89‡, 351‡, 397‡
 Operating Officers' Meeting, 87
 Lamb Gasoline Weed Burner, 55*
 Decision on Stopping Trains as Ordered by State R. R. Commission, 529
 Imperial Chinese Railways:
 Eight-Wheel Locomotive, 81*
 Indestructible Fibre Co.:
 Car Head Linings and Roofs, 77 (G. N. S.)
 India:
 Operating Statistics of Railroads, 456*
 Railroad Gages of, 456*, 482
 Tonga Service vs. Railroad, 304‡
 Indiana Harbor R. R. (See Chicago, Indiana & Southern)
 Indiana, Illinois & Iowa (See Chicago, Indiana & Southern)
 Indiana State R. R. Commission, 22 (G. N. S.)
 Interborough Rapid Transit Co. (See also Manhattan Elevated; also N. Y. Subway):
 Traffic, 209‡
 Interlocking (See Signals, Interlocking)
 Inter-oceanic of Honduras, 168
 Interstate Commerce Commission (See also Rate Law):
 Annual Report, 1905, 253‡, 276, 581
 Coal and Oil Traffic Investigation, 20
 Investigation of Railroads and Elevators, 13 (G. N. S.)
 Personnel of, 28‡
 Posting of Tariffs, 92‡, 325‡
 Power to Prescribe Form of Accounts, etc., 72‡, 179 (G. N. S.)
 Preliminary Report of Year's R. R. Earnings, 147 (G. N. S.)
 Rate Rulings, 331
 Uniform Classification of Freight, 229‡
 Work of, 191‡
 Interstate Commerce Law:
 Summary of Provisions Under, 3 (G. N. S.)
 Intoxicants, Interstate Transportation of, 530
 Investigating, Value of, 399‡
 Iron and Steel:
 Ballistic Tests of Cast Steel Cylinders, 529*
 Case Hardening Wrought Iron, 202
 Modern Practice in Rail Making, 467
 Production in 1904 and 1905, 177
 Tempering High Speed Steel, 570
 Thermit (See Thermit)
 Isthmian Canal Commission (See Panama Canal)
 Italy:
 Government Ownership, 7 (G. N. S.), 170‡, 177
 History and Organization of R. R.'s, 261*
 Italian State Railways:
 Balanced Throttle Valve, 552*

J

Jack (See Tools)
 Japan:
 Government Ownership, 22 (G. N. S.)
 Results of R. R. Operation in 1905, 93‡
 John Scott Medal, 109 (G. N. S.)
 Journal Bearing:
 Anti-Waste Grabber, 140* (G. N. S.)
 Modern Scientific Lubrication, 118*
 Principal of Lubrication, 143

K

Kanawha & Michigan:
 Consolidation with Hocking Valley, 110‡
 Kansas:
 Mr. Ripley on Two-Cent Fares, 109‡, 125
 Pres. Ripley's Answer to Criticisms, 162
 Kansas City, Mexico & Orient:
 South Canadian River Bridge, 225*
 Status, 557*

Kansas City Southern:
 Annual Report, 472‡*
 Shops at Pittsburg, Kan., 53 (G. N. S.)
 Kansel Ry., Narrow-Gage Locomotive, 560*
 Khilkoff, Prince, on Russian Railroads, 134*
 Kishiu Railway, Tank Locomotive, 431*
 Kobusch-Wagenhals Steam Motor Car, 289*

L

Labor (See Trade Unions; also Employee)
 Lake Champlain & Mohawk, Repairs to Steel Cars, 513*
 Lake Shore & Michigan Southern:
 Ashtabula Harbor Improvements, 339*
 Electric Motor Driven Pumping Plant, 460*
 Four Cyl. Simple Inspection Locomotive, 198*
 Generator for Collinwood Shops, 132* (G. N. S.)
 Gravel Washing Plants, 190‡, 214*
 Lamb Gasoline Weed Burner, 55*
 Lamps (See Signals; also Lighting)
 Lawrence, V. O., Co., Anti-Waste Grabber, 140* (G. N. S.)
 Leaves from a R. R. Officer's Notebook, 119
 Legal Decisions (See also Freight Rates):
 Monthly Summaries: June, 1906, 31; July, 1906, 133; Aug., 1906, 193; Sept., 1906, 307; Oct., 1906, 402; Nov., 1906, 528
 Legislation (See also Gov't Rate Regulation; also Rate Law):
 Block Signals in Massachusetts, 277‡, 524
 Employers' Liability Law, 430
 Limiting Employees' Hours, 1‡
 Live Stock, 1‡
 Neglect of Elkins Law, 29
 Steam and Trolley in Massachusetts, 26‡
 Virginia Two-Cent Fare Law Invalid, 111‡
 Lehigh & Hudson River:
 Annual Report, 522‡*
 Lehigh Valley:
 Annual Report, 257‡*
 Coal Storage Plant, Ransom, 435*
 Lidgerwood Derrick Engine, 8* (G. N. S.)
 Lighting:
 Acetylene Generating Plant, D. L. & W., 145*
 Bliss Electric Train Line Coupler, 24*
 Wallwork's Electric Lamp Bracket, 54* (G. N. S.)
 Lions, Effect of, on Railroad Operation, 110 (G. N. S.)
 Liquor (See Intoxicants)
 Liverpool & Southport (Eng.):
 Operating Results of Electrification, 302‡, 323
 Lock Joint Pipe Co.:
 Pipe Protecting Piles from Teredo, 137*
 Locomotive:
 Atlantic, 4-Cyl. Bal. Comp., Danish State Rys., 533*
 Atlantic, 4-Cyl. Bal. Comp., Gt. Northern, 371*
 Atlantic, 4-Cyl. Bal. Comp., Prussian State Rys., 160*
 Boiler (See Locomotive Boiler)
 Cole, 4-Cyl. Bal. Comp., Northern Pacific, 406*, 536*
 Consolidation, B. & L. E., 345*
 Consolidation, of 1880, Penna. Lines West, 344*
 Crane, Built by Vulcan Fdry., Lancashire, Eng., 203*
 Eight-Wheel, Imperial Chinese Rys., 81*
 Exhaust Deflector, 2* (G. N. S.)
 Finished Repair Parts for, 461
 Firebox (See Locomotive Firebox)
 Flaman Speed Indicator, 250*
 Four-Cyl. Comp., Bavarian State Rys., 185*
 Great Northern (Eng.), 1865, 154*‡
 Guide and Frame Brace, Cole 4-Cyl. Bal. Comp., 536*
 Heavy Locomotives and the Railroads of the Future, 422‡
 Inspection, 4-Cyl. Simple, for Lake Shore, 198*
 Mallet Compound, Erie, 325‡, 389*
 Mallet Comp., Great Northern, 148*, 315*
 Mogul, for Panama Canal, 58*
 Mogul, N. Y. C. & H. R., 345*
 Mogul, Philippine Rys., 439*
 Narrow-Gage Comp., Kansel Ry., 560*
 Oil Burning, Manitou & Pike's Peak, 40*
 Output in 1906, 565‡
 Pacific Great Northern, 371*
 Penna. R. R., 1846 and 1866, 167*, 213‡
 Philadelphia & Columbia, 1834, 1835 and 1853, 166*
 Prairie Bal. Comp., A. T. & S. F., 414*
 Prairie, C. B. & Q., 344*
 Prairie, Great Northern, 371*
 Rack, Manitou & Pike's Peak, 40*, 108*
 Single Expansion and Lower Pressures, 489, 542‡
 Superheater (See Superheater)
 Switching, P. & L. E., 98*
 Tank, Kishiu Ry., 431*
 Ten-Wheel Tank, London & North-Western, 368*
 Tires, Wear of, 83*
 Valve (See Valve and Valve Gear)
 Welding Frames, 42
 Locomotive, Electric:
 Gen. Elec. Co., Built by Am. Loco. Co., 580*
 New York Central, 77*
 Simplon Tunnel, 32, 52‡
 Spokane & Inland, 162*

- Locomotive, Freight:**
 A. T. & S. F., Bal. Comp., Prairie, 414*
 B. & L. E., Consolidation, 345*
 C. B. & Q., Prairie, 344*
 Development of American, 344*
 Erie, Mallet Compound, 325*, 389*
 Great Northern, Mallet Comp., 148*, 315*
 Kinslin Ry., Tank, 431*
 N. Y. C. & H. R., Mogul, 345*
 Panama Canal, Mogul, 58*
 Penna. Lines West, Consolidation of 1880, 344*
 Philippine Ry., Mogul, 439*
- Locomotive, Passenger:**
 Bavarian State Rys., Four-Cyl. Comp., 185*
 Danish State Rys., Four-Cyl. Bal. Comp., 533*
 Great Northern, Atlantic, 4-Cyl. Bal. Comp., 371*
 Great Northern, Pacific, 371*
 Great Northern, Prairie, 371*
 Imperial Chinese Railways, Eight-Wheel, 81*
 Recent Development, 52*
 Kansai Ry., Narrow-Gage Comp., 560*
 Kinslin Ry., Tank, 431*
 London & North Western, Ten-Wheel Tank, 368*
 N. Pac., Cole Four-Cyl. Bal. Comp., Pacific, 406*, 530*
 Prussian State Rys., Four-Cyl. Bal. Comp., 160*
- Locomotive Boiler:**
 Belpaire vs. Radial Stayed, 66
 Essentials in Design, 66*
 M. M. Specifications for Tubes, 446*
- Locomotive Firebox:**
 Corrosion of Crown Sheet Staybolts, 326*
 Crown Sheet Failure, 22 (G. N. S.)
 Hollow Staybolts, Economy of, 93*
 Repairs to Wide and Narrow Fireboxes, 236
 Wide and Narrow Fireboxes, 52*
- Locomotive Front End, Netting and Diaphragm in,** 398*
- Locomotive Performance (See also Fast Trains and Runs):**
 Acceleration and Other Problems, 217
 Efficiency: Steam Consumption, 375*
 Evaporation Tests, Pere Marquette, 516*
 High Steam Pressures, 489*, 520*, 542*
 Pooled vs. Regularly Assigned Engines, 207
 Steam and Electric Locomotive Power, 421*, 428*, 451*
- Locomotive Rating,** 237
- London:**
 New Tramways in, 260
- London & North Western:**
 Cartage and Delivery System, 445*, 452*
 Electrification, 289
 Motor Car, 310*
 Steam Lorry for Freight Delivery, 452*
 Ten-Wheel Tank Locomotive, 368*
- London & South-Western:**
 Steam Motor Car, 364*
- Long Island R. R.:**
 Commuters Vote on Train Schedule, 133*
 Development of, 374*
 Ferry Boat "Babylon," 65 (G. N. S.)
- Louisville & Nashville:**
 Annual Report, 425*
 Dynamite Disaster at Jellico, Tenn., 78 (G. N. S.)
- Lubrication:**
 Modern Scientific, 118*
 Principle of, 143
- Lumber (See Timber)**
- M**
- Machine Tools (See also Pneumatic):**
 Cold Saw, Cutting Off Machine, 54* (G. N. S.)
 Rolling Pipe Cutter, 118* (G. N. S.)
 600-ton 90-in. Hydraulic Wheel Press, 273*
 Maffei, J. A., Four-Cyl. Comp. Locomotive, 185*
 Mahl, William, 438
- Maintenance of Way:**
 Best Method of Maintaining Track, 459
 Deformation of Track, 128
 Experimental Roadbed, Penna. R. R., 413*
 Gravel Washing Plants on Lake Shore, 190*, 214*
 Killing Trackmen, 130*
 Lamb Gasoline Weed Burner, 55*
 Mechanical Track Inspector, 374*
 Rotary Snow Plow, D. N. & P., 578*
 Setting Stakes on Existing Curves by Middle Ordinates, 341*
 Track Elevation at Chicago: P., Ft. W. & C., 4*
 Track Inspection Car, B. & O., 390* 402*
- Mallory Line:**
 Earnings, 149 (G. N. S.)
 Sale of, to C. W. Morse, 118 (G. N. S.), 447*
- Malaysian Railroads,** 63
- Manhattan Elevated Ry.:**
 Traffic, 269*
- Manila Ry.,** 148 (G. N. S.)
- Manitowish & Pike's Peak:**
 Observation Car, 66*
 Rack Locomotive, 40*, 108*
- Massachusetts:**
 Block Signal Legislation, 277*, 524
 Forest Fires and Railroads, 469*
 Legislation During Session 1905-1906, 4
 Steam and Trolley in, 26*
- Massachusetts State R. R. Commission:**
 Block Signal Legislation, 277*
- Masonry (See Concrete)**
- Master Car Builders' Association:**
 1907 Conventions, 119 (G. N. S.)
 Recommendations (See particular subjects)
 Where to Hold June Conventions, 29*
- Master Mechanics' Assoc. (See Am. Ry. M. M. Assoc.)**
- Matheson, John,** 34* (G. N. S.)
- McGill University, R. R. Course,** 553
- Meetings (See Corporate Names)**
- Merger (See Combination)**
- Mexican Central:**
 Annual Report, 544*
 Proposed Consolidation with National of Mex., 544*
- Mexico:**
 Government Railroads, 544*
 Railroads and Traffic, 263
 Mexico, Oaxaca & Yucatan, 94 (G. N. S.)
- Michigan Central:**
 Detroit Tunnel, Contract Let, 71 (G. N. S.)
 Standard Code on, 29
- Middletown Car Works:**
 Steel Gondola, Newburgh & South Shore, 554*
 Steel Underframe Stock Car, Cent. of N. J., 403*
- Mileage Book (See Passenger Rates)**
- Mileage Built (See Construction, New)**
- Minneapolis, St. Paul & Sault Ste. Marie:**
 Collision at Enderlin, N. Dak., 179 (G. N. S.)
- Mining:**
 Steam Shovels in Anthracite Mining, 168*
 Missouri, Kansas & Texas:
 Annual Report, 377*
 Missouri Pacific:
 Annual Report, 498*
 Kansas City Freight House, 265*
- Mississippi:**
 Authority of State R. R. Commission over Interstate Trains, 529
 Monopoly, Railroad, in New England, 50*
- Morgan Line:**
 New Steamships, 128, 396*, 564*
- Morrison, C. H.,** 358*
- Morse, C. W.,** Purchase of Mallory Line, 118 (G. N. S.), 447*
- Motor:**
 Electric Drive for Machine Shops, 518*
- Motor Car:**
 Canadian Pacific Steam, 57*
 Great Southern & Western (Ireland), 311*
 Kobusch-Wagenhals Steam, 289*
 London & North Western, 310*
 Rail-Motor-Car Traffic in England, 310*
 Steam, London & South-Western, 364*
 Strang Gasoline-Electric, 266*
 Union Pacific, No. 8, 437*
- Motor Vehicle (See Automobile)**
- Municipal Ownership (See Government Ownership)**
- N**
- Nashville, Chattanooga & St. Louis:**
 Train Rules, 171*
- National Lock Washer Co.:**
 Curtain Fixtures, 66* (G. N. S.)
 Window Fixtures, 86* (G. N. S.)
- National of Mexico:**
 Proposed Consolidation with Mex. Cent., 544*
- Newburgh & South Shore:**
 Steel Gondolas, 554*
- New Jersey:**
 Taxation of Railroads and Canals, 308
- New State R. R., The,** 163*
- Newton Machine Tool Works:**
 Cold Saw Cutting Off Machine, 54* (G. N. S.)
- New York Central & Hudson River:**
 Block Signals: Electric Zone, 71*, 73*
 Draybridge Floors and Locks, 434
 Electric Locomotives, 77*
 Grade Separation at Yonkers, 233*
 Growth of New York Terminal, 352*
 Handling Heavy Passenger Travel, 26*
 Mogul Freight Locomotive, 345*
 Raising of Canal Bridge at Schenectady, N. Y., 240*
 Rebates on Sugar Shipments, 101 (G. N. S.), 110 (G. N. S.), 349*, 164 (G. N. S.)
 Rules for Trains on Eleventh Avenue, 126 (G. N. S.)
 Steel Suburban Motor Car, 295*
 Terminal Electrification at New York, 277*, 293*, 164 (G. N. S.)
- New York City:**
 Municipal Ferry, 34 (G. N. S.)
 Traffic on Traction Lines, 209*
- New York City Ry.:**
 Traffic, 209*
- New York Connecting R. R.,** 570*
- New York, New Haven & Hartford (See also Consolidated Ry.):**
 Annual Report, 281*
 Arrangements for Merging Subsidiaries, 191*
 Control of Electric Lines, 149*
 Electric Expansion, 543*
 Electrification, Progress of, 277*
 Extra Fare Trains, 50*, 53*
 Football Travel, 494*, 502
 Handling Heavy Passenger Travel, 26*
 Lowering Tracks at Mount Vernon, N. Y., 88
 Massachusetts Legislation, 4
 New Haven Cut Improvement, 157*
 Overcrowding of Passenger Trains, 494*, 569*
 Position in New England Territory and Passenger Rates, 50*
 Rebuilding Highland Division, 33*
 Reduction of Fares, 89*, 48 (G. N. S.)
 Refusal to Pay Fare in Crowded Car, 212*
 South Station, Boston, 422*
 Steam and Trolley in Massachusetts, 26*
 Strike of Switchmen, 132*, 152*
- New York State R. R. Commission:**
 Grade Separation at Yonkers, 233*
 Personnel and Grade Crossings, 109*, 129*
- New York State:**
 Grade Separation, 234*
- New York Subway:**
 Tunnel Under East River, 169 (G. N. S.)
- Niles-Bement-Pond Co.:**
 600-ton 90-in. Hydraulic Wheel Press, 273*
- Norfolk & Western:**
 Annual Report, 232*
- North Dakota:**
 Shortage of Coal, 541*
- North-Eastern Ry. (Eng.):**
 Motor Vehicles, 172*
- Northern Pacific:**
 Annual Report, 375*
 New Capital Stock, 542*
 Operating and Traffic Conditions, 156 (G. N. S.)
 Pacific Type Locomotive, 406*, 530*
 Passenger Station at Butte, 392*
 Status of R. R. Building in Washington, 291*
 Train Order "Form 31," 86
- O**
- Officer (See also Organization):**
 Commerce Counsel on Rock Island, 373*
 Corporation Investments of, 2*
 Important Changes in 1906, 576
 Supply Department, 557*
- Oil (See Lubrication)**
- Old Portage R. R.,** 163*
- Ore Handling:**
 Hulett Car Dumper, 356*
- Oregon & Washington,** 291*
- Oregon R. R. & Navigation Company:**
 Status of R. R. Building in Washington, 291*
- Organization:**
 Atchison, Topeka & Santa Fe, 558*, 569*
 Motive Power Department: A., T. & S. F., 470*, 495*, 504*
 Co-operation of Departments, 170*, 182
 Penna. R. R., 37*
 Shop Betterment, A., T. & S. F., 476*, 495*, 504*
 State R. R. Commissions, 49*
 Supply Department, 557*
- P**
- Paine, Charles,** 36*
- Panama Canal:**
 Adopted Plans, 132 (G. N. S.)
 Bond Issue, 1 (G. N. S.)
 Mogul Locomotive, 58*
 To be Built by Contract, 94 (G. N. S.)
- Panama Railroad:**
 History, 97
- Pan-American R. R.,** 107
- Paris:**
 Subway, 531
- Parker Car Heating System,** 122*
- Passenger Rates (See also Interstate Commerce Commission):**
 Brooklyn Single Fare to Coney Island, 129*, 42 (G. N. S.)
 Extra Fare Trains, 50*, 53*
 Interstate Commerce Commission Rulings, 331
 Mileage Books, Penna. R. R., 301*
 Mileage, 2½ Cent. Southeastern States, 1 (G. N. S.)
 Mr. Ripley on Two-Cent Fares in Kansas, 109*, 125
 New England Railroads, 50*
 Publication of Rate Changes, 252
 Reduction on N. Y., N. H. & H., 89*, 48 (G. N. S.)
 Reduction on Penna. R. R., 89*, 107
 Refusal to Pay Fare in Crowded Car, 212*
 Transportation for Other Considerations Than Money, 252
 Two-Cent Fares in Canada, 147 (G. N. S.)
 Virginia Two-Cent Fare Law Invalid, 111*
- Passenger Traffic:**
 New York City, 209*
 Football Travel, Penna. R. R. and N. Y., N. H. & H., 494*, 502
 Handling Heavy Passenger Travel, 26*
 Overcrowding of Trains, 494*
- Peabody, J. A.,** 358*
- Pearson, S., & Son:**
 Air Power Plants, Penna. R. R. East River Tunnels, 77*
- Pennsylvania:**
 Anthracite Fields of, 76*
 Early Government Ownership, 348
- Pennsylvania Railroad:**
 Acworth on Finance of, 359
 Air Power Plants, East River Tunnels, 77*
 Ashburn Harbor Improvements, 339*
 Atlantic City Wreck, 373*, 396, 405
 Coal and Oil Traffic Investigation, 20
 Derailment in 1855, 63*
 Dividend, How Declared, 117 (G. N. S.)
 Early Valve Gears, 141*
 Eddington Collision, 326*, 350*
 Experimental Roadbed, 413*
 Football Travel, 494*, 502
 Gallitzien Tunnel Ventilation, 246*
 History of Some Subsidiaries, 163*
 Increased Dividend, 297*, 413
 Locomotives of 1846 and 1866, 167*, 213*
 Mileage Book, 28*, 301*
 New York Connecting R. R., 570*
 New York Terminal, 302*, 352*
 Organization of, 37*
 Payment of Freight House Men, 93*
 Reduction of Fares, 89*, 107
 Sale of B. & O. Stock, 190*, 230*
 Steel Passenger Car, 146*
 Tunnel Across Manhattan Island, 380*
 Tunnel Under East River, N. Y., 11*
 Tunnel Under Hudson River, 209*, 94 (G. N. S.), 582*
 Wages Increased, 402
 Washington Union Station, 100*
- Pennsylvania Lines West (See also P., Ft. W. & C.):**
 Consolidation Freight Locomotive of 1880, 344*
- Per Diem (See Car Service)**
- Pere Marquette:**
 Annual Report, 400*
 Locomotive Evaporation Tests, 516*
 Results of Receivership, 398*
- Permanent Way (See Maintenance of Way)**
- Philadelphia & Columbia,** 163*

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡; General News Section References thus (G. N. S.).]

- Philadelphia & Reading:
Annual Report, 450†
Coal Storage Plant, Abrams, Pa., 435*
Wages Increased, 402
Philadelphia, Baltimore & Washington:
Automatic Block Signals, 341
Philadelphia Rapid Transit:
Block Signals, 394*
Steel Car, 342*
Philippine Islands:
Labor Conditions, 199*
Philippine Ry.:
Mogul Locomotive, 439*
Piles (See also Timber):
Reinforced Concrete, 238*
Pipe:
Electrolysis of, 185
Pittsburg & Lake Erie:
Six-Wheel Switching Locomotive, 98*
Pittsburg, Cincinnati, Chicago & St. Louis:
Fast Run, 148 (G. N. S.)
Pittsburg, Fort Wayne & Chicago:
Allegheny Engine Terminal, 307*
Chicago Track Elevation in 1905, 4*
Pittsburg Railway Co.:
Addition to Power Plant, 21 (G. N. S.)
Pittsfield Street Ry.:
Results of Operation, 96
Pneumatic Tools:
Sullivan Hammer Drills, 133* (G. N. S.)
Politics in State R. R. Commissions, 49†
Pooling Locomotives (See Locomotive Performance)
Poor's Statistics for 1905, 419
Portland & Seattle, 291*
Electric Traction on, 49†
Status, Northern Pacific Report, 375†*
Prentice Rail Anchor, 147*
Pressed Steel Car Company:
Phila. Rapid Transit, Steel Car, 342*
Southern Ry., Steel Passenger Car, 342*
United of San Francisco, Steel Car, 342*
Private Car Lines:
Purchase of Refrigerator Cars by Harriman Lines, 231†
Prussian State Railroads:
Four-Cyl. Comp. Express Locomotive, 160*
Pump:
Electric Motor Driven Pumping Plant, Lake Shore, 460*
Purdue University:
High Steam Pressure Tests, 489*, 520†
- R**
- Rail:
Curve Resistance, 138*
Modern Practice, 467
Prentice Rail Anchor, 147*
Specifications, American and Foreign, 254†
Railroads:
American, German View of, 206, 273, 530
Archae Resistance to, 324
Early Wooden, 140, 260†
Hill on R. R. Expansion and Reciprocity with Canada, 441
Milage Built in 1906, 565†, 572
Poor's Statistics for 1905, 419
Pres. Roosevelt's Attitude, 178 (G. N. S.)
Public Attitude Toward, 211†
Relationship to the People, 511
Railroad Commissions (See State R. R. Commissions)
Railway Signal Association:
Annual Meeting, 358*
Committee Reports, 333, 349†, 368*, 379, 385, 427†
Ramsey Project, New York to Pittsburg, 189†
Rate Law:
Acworth on, 78 (G. N. S.)
Constitutionality, 57
Harriman on, 140 (G. N. S.)
Interpretations of, 253†, 260
Neglect of Elkins Law, 29
Passage of Bill, 1†
Probable Test of, 448†
Put into Effect, 53 (G. N. S.)
Review of, 91†
Workings of, 278†, 303†
Rates (See Passenger Rates; Freight Rates)
Rating (See Locomotive Rating)
Rebates (See Freight Rates; Gov't Rate Regulation)
Receiverships and Foreclosures in 1906, 566†
Refrigerator Car Lines (See Private Car Lines)
Refrigeration:
Cooling Fruit for Shipment, 156*
Reinforced Concrete (See Concrete, Reinforced)
Relationship of the Railroads to the People, 511
Rensselaer Polytechnic Institute, New Buildings, 157 (G. N. S.)
Reports, Annual (See Individual Companies)
Revolute Machine Co., Everett-McAdam Blue Printing Machine, 118* (G. N. S.)
Rhode Island Company, 543†
Roadbed (See Maintenance of Way)
Roadmasters and Maint. of Way Assoc., Annual Meeting, 454
Roosevelt's Attitude Toward R. R., 178 (G. N. S.)
Rosenberg, C. C., 358*
Rules (See Accidents; Employee; Signals; Train Rules)
Russia:
Prince Khilkoff on Russian Railroads, 134*
Russian-Asiatic R. R.s, 178 (G. N. S.)
Timetable, 208*
- S**
- St. Louis & San Francisco:
Annual Report, 423†
New Freight Terminal at St. Louis, 322*
St. Louis Car Co.:
Kobush-Wagenhals Steam Motor Car, 289*
St. Louis Southwestern:
Cost of Construction into Dallas, Tex., 372*
Repairs to Bridge with Reinforced Concrete, 169†, 180*
Safety Appliance:
Status of M. C. B. Standards for Protection of Trainmen, 244
Safety Appliance Act:
Prosecutions Under, 2 (G. N. S.), 33 (G. N. S.), 85 (G. N. S.)
Salton Sea, 144, 420*, 380 (G. N. S.)
San Francisco:
Pres. Harriman's Report on Disaster, 537
Reorganization of Southern Pacific Offices After Fire, 445†
Schaplograph, 156* (G. N. S.)
Schmidt Superheater, 124*
Schools (See Names)
Seaboard Air Line:
Protecting Piles from the Terezo, 137*
Shed (See Station)
Sherwin-Williams Annual Convention, 133 (G. N. S.)
Ship (See also Ferry):
Built in U. S. During Fiscal Year, 1 (G. N. S.)
Canadian Pacific New Steamers, 144
Coastwise Situation, 447†
Cunarders, New, 56
Fast Loading of Grain Steamers, 528*
"Hendrik Hudson" for Hudson River Day Line, 197*
New Southern Pacific, 128
Ship Building on the Great Lakes, 365*
Southern Pacific Steamship "Creole," 396*
Southern Pacific Steamship "Momus," 564*
Shops:
C. & E. L. Oaklawn, at Danville, Ill., 388*
Electric Drive, 518†
Electrical Equipment, Hornell Shops of the Erie, 518†, 526*
Internal Combustion Engines for Shop Power, 505, 84*
Kansas City Southern at Pittsburg, Kan., 53 (G. N. S.)
Organization and Construction Methods, Ivorydale, C. H. & D., 242*
Shop Betterment on the Santa Fe, 476*, 495†, 504*
Siberia:
First Railroad In, 24
Signal:
Distant Switch, Harriman Lines, 308*
Installation and Maintenance of Storage Batteries, 333
Lamps and Oil, Ry. Sig. Assoc. Report, 386
Power Signalling in England and Scotland, 55
Railway Signal Assoc. Recommendations, 333, 349†, 368*, 379, 385, 427†
Semaphore Indication Above the Horizontal, 547†
Wire, Specifications for Rubber Insulated, 334
Working Hours of English Signalmen, 140 (G. N. S.)
Signal, Block:
Combined Manual and Automatic, C. N. O. & T. P., 86*
Flagman on Block Signaled Roads, 471†, 548†, 549†
Harriman Lines, Program for 1907, 575*
Market Street Elevated and Subway, Philadelphia, 394*
Massachusetts R. R. Commission Orders, Use of, 277†, 524
New York Central, Electric Zone, 71†, 73*
P. B. & W. Electro-Pneumatic Automatic, 341
Remedies for Effects of Foreign Currents, 333, 387
Report of Ry. Sig. Assoc. Committee, 333, 349†, 368*, 379, 385, 427†
Southern Ry. Accident at Lawyer, Va., 519†
West Jersey & Seashore, 298*
When the Flagman Insults the Signalman, 471†, 548†, 549†
Signal, Interlocking:
Report of Ry. Sig. Assoc. Committee, 333, 349†, 368*, 379, 385, 427†
Three-Position Semi-Automatic, B. & O., 288*
West Jersey & Seashore, 298*
Simpson Tunnel:
Electric Locomotives, 32, 52†
Electrification of, 553
Opened for Regular Traffic, 8
Working of, 56
Snow Plow, Rotary, Denver, Northwestern & Pac., 578*
South America: Trans-Andine R. R., 107.
South Omaha & Western, 549*
Southern Railway:
Annual Report, 496†
Collision at Lawyer, Va., 493†, 501, 517†, 519†, 524†
Steel Passenger Car, 342*
Southern Pacific:
Annual Report, 568*
Distant Switch Signals, 308*
Dividend, 151†
Electrification in Oakland, 502*
New Steamships, 128
Portable Creosoting Plant, 48 (G. N. S.)
Reorganization of San Francisco Offices After Fire, 445†
- Southern Pacific (Continued):
Salton Sink Flooded by Colorado River, 144, 420*, 380 (G. N. S.)
School for Shopmen, 109 (G. N. S.)
Signal Scheme for 1907, 575*
Station at Berkeley, Cal., 194*
Status of R. R. Building in Washington, 291*
Steamship "Creole," 396*
Steamship "Momus," 564*
Strike of Railroad Clerks, 510, 548†
Speed Indicator, Flaman, 250*
Spencer, Samuel, 493†, 509*
Spike:
Holding Power of, 78 (G. N. S.)
Spokane & Inland Electric Railroad, 162*
Springfield Street Ry.:
Results of Operation, 96
Standard Code (See Train Rules)
State Ownership (See Government Ownership)
State R. R. Commissions (See also Gov't Rate Regulation):
Betterment of, 150†
Personnel of, 49†
State Rights with Interstate Trains, 529
What They Need, 485
Station (See also Yards and Terminals; also Freight House):
B. & O., at Wheeling, W. Va., 8*
Grand Trunk at Battle Creek, 342*
Northern Pacific at Butte, Mont., 392*
Southern Pacific at Berkeley, Cal., 194*
South Station, Boston, 422†
Status of Private Stations, 231†
Washington Union, 100*
Status of the Holding Corporation, 327†
Staybolt (See Locomotive Firebox)
Steam:
High Steam Pressures in Locomotive Service, 489*, 520†, 542†
Steamer (See Ships)
Steam Shovel Work, Cost of, 561
Steam Shovels in Anthracite Mining, 168*
Steel (See Iron & Steel)
Steel-Concrete (See Concrete, Reinforced)
Stevenson, Robert, & Co.:
Eight-Wheel Locomotive, Imperial Chinese Ry.s., 81*
Stock (See Finance)
Storage Battery (See Signals)
Strang Gasoline-Electric Car, 266*
Strauss Ribbed Concrete Steel Bridge, Elgin Belvidere Elec. R. R., 220*
Street Railways (See also Electric Railroad):
Elements of Value, 567†
New Tramways in London, 260
Rapid Transit in Chicago, 44*
Subway (See Subway)
Street Railway Assoc. (See American Street and Interurban Railway Assoc.)
Strike:
N. Y. N. H. & H. Switchmen, 132†, 152†
Southern Pacific Clerks, 510, 548†
Subway:
Paris, 531
Suez Canal:
Annual Report, 51†
Sullivan Air Compressor, 252*
Sullivan Pneumatic Hammer Drills, 133* (G. N. S.)
Superheater:
Schmidt, 124*
Superintendents of Bridges and Buildings (See Assoc. of Ry. Supts. of B. & B.)
Surveying:
Setting Stakes on Existing Curves by Middle Ordinates, 341*
Traversing Lakes and Rivers with Stadia, 442*
Symons Cast Steel Trucks, 74*
- T**
- Tachograph, Flaman, 250*
Taxation:
German Tax on R. R. Tickets, 27†
R. R. and Canal Property in New Jersey, 308
Tehuantepec National Ry., 410*
Telegraph:
Underground in England, 2 (G. N. S.)
Tests:
Boiler Tubes, Univ. of Ill., 446†
Locomotive Evaporation, Pere Marquette, 516*
Rails, 467
Value of Investigating, 399†
Testing and Inspection of R. R. Supplies, 54
Texas:
Railroad Built: Half Year Ended June 30, 2 (G. N. S.)
Railroad Extensions in, 132 (G. N. S.)
Texas Central:
Annual Report, 304†
Texas Traction Co., 178 (G. N. S.)
Thermite:
Welding, 489
Welding Locomotive Frames, 42
Third Rail (See Electric Traction)
Ticket:
German Tax on R. R. Tickets, 27†
Interchangeable Mileage in Southeastern States, 1 (G. N. S.)
Mileage, Penna. R. R., 28†
Tie (See also Timber):
Character and Number Bought in 1905, 323†, 358
Deformation of Track, 128
Holding Power of Spikes, 78 (G. N. S.)
Metal, in Germany, 209†
Metal, Use on B. & L. E., 348
Steel, Carnegie, 64*
Use of Treated Ties, 325†

- Timber (See also Tie):
 Croseted, 50 Years Old, 267*
 Forest Fires and Railroads, Massachusetts, 469*
 Forestry on Long Island R. R., 374*
 Lumber Business of the Government, 357
 Portable Creosoting Plant, Southern Pacific, 48 (G. N. S.)
 Protecting Piles from the Terebo, 137*
 Timetable (See Train Schedules)
 Tires (See Wheel)
 Tonnage Rating (See Locomotive Rating)
 Tool (See also Machine; Pneumatic):
 Hobson Wrench, 22* (G. N. S.)
 Lining-Up Jack, 148* (G. N. S.)
 Track (See Maintenance of Way)
 Tractive Power (See Locomotive Rating)
 Trade Union:
 Brotherhood of R. R. Trainmen and N. Y., N. H. & H., 132*, 152*
 Labor Agitation in England, 334
 Strike of Southern Pacific Railroad Clerks, 510, 548*
 Union of Crippled R. R. Employees, 79 (G. N. S.)
 Traffic (See also Freight; also Passenger Traffic):
 Interchange of, Steam and Electric Roads, 370
 Train:
 Auditors and Collectors, 69*
 Extra Fare Trains, 50*, 53*
 Light Cars Between Heavy Cars and Engine, 169*
 Movements, on W. & L. E., 454*
 Passenger, Overcrowding of, 494*, 569*
 Train Lighting (See Lighting)
 Train Load (See Locomotive Rating)
 Train Robberies, 148 (G. N. S.), 156 (G. N. S.)
 Train Rules:
 British: Accident at Nantmill, 280*
 Flagman on Block Signaled Roads, 471*, 548*, 549*
 Flagman on Officer's Train, 517*
 Form 19 for Superior Trains, 106
 Form 31 on Northern Pacific, 86
 Modification of Flagging Rule, 387
 Nashville, Chattanooga & St. Louis, 171*
 New Standard Code, 114, 135, 155
 Standard Code on Mich. Cent., 20
 When the Flagman Insults the Signalman, 471*, 548*, 549*
 Train Shed (See Station)
 Train Schedules:
 Difficulty of Making Fast Time in Winter, 170 (G. N. S.)
 Georgia R. R. Commission and, 494*, 501
 Long Island R. R. Commuters Vote on, 133*
 Russian Timetable, 208*
 Tramways (See Street Railways)
 Trans-Andine Railroad, 107
 Traveling Engineers' Association:
 Annual Convention, 60 (G. N. S.)
 Trestle (See Bridge)
 Trolleys (See Electric Railroads)
 Truck:
 Symons Cast Steel, 74*
 Trussed Concrete Steel Co., Collapse of Hotel Bixby, 451*
 Tunnel:
 Air Power Plants, Penna. R. R. East River Tunnels, 77*
 Detroit, Contract Let, 71 (G. N. S.)
 Gallitzien, Penn. R. R. Ventilation, 246*
 Kaiser Wilhelm Tunnel, Ventilation of, 443
 New York Subway, under East River, 169 (G. N. S.)
 Penna. R. R. Across Manhattan Island, 380*
 Penna. R. R. East River, N. Y., 11*
 Penna. R. R. Under Hudson River, 209*, 94 (G. N. S.), 582*
 Simplon (See Simplon Tunnel)
 Subway (See Subway)
 Ventilation of, 246*, 443
 Tuttle, Lucius, 216
 Union Pacific:
 Annual Report, 520*
 Distant Switch Signals, 308*
 Dividend, 151*
 Motor Car No. 8, 437*
 North Platte River Bridge, 524*
 Omaha Cut-Off, 549*
 Purchase of B. & O. Stock, 230*
 Signal Scheme for 1907, 575*
 Union Switch & Signal Co.:
 Electro-Pneumatic Signals, West Jersey & Seashore, 298*
 Unit Costs of Railroad Building, 189*, 203*, 372*, 438*, 462*
 United R. R. of San Francisco:
 Steel Street Car, 342*
 United States (See also Interstate Commerce Commission):
 Attitude of Government Toward R. R.s, 179 (G. N. S.)
 Railroad Statistics; I. C. C. 1905 Report, 253*, 276, 581
 United States Express Co.:
 Operations of, 70*
 United States Steel Corporation:
 Ore Deal, 301*
 Per Diem Agreement by Subsidiaries, 149*
 Unit Statistics, Beginning of, 438
 Universities (See Names)
 University of Illinois: Boiler Tube Tests, 446*
 University of Pennsylvania:
 Dedication of Engineering Building, 110 (G. N. S.)
 Value (See Finance)
 Valve:
 Alfrey-Hubbell, 105*
 Allen, 102*
 Early Valve Gears on the Penna. R. R. 141*
 Gooch Valve Motion, 102*, 108*
 Hackworth, 102*
 Helmholz, 106
 Joy, 103*
 Marshall, 379*
 Special Valve Gears for Locomotives, 102*
 Walschaert, 103*, 372
 Young, 105*
 Zora Balanced Throttle, Italian State Rys., 552*
 Vancouver, Victoria & Eastern, 291*
 Vauclain, S. M., 119 (G. N. S.)
 Ventilation:
 Tunnels, 246*, 443
 Viaduct (See Bridge)
 Virginia:
 Two-Cent Fare Law Invalid, 111*
 Vulcan Foundry Co.:
 Crane Locomotive, 203*
 Vulcan Iron Works:
 Steam Shovels in Anthracite Mining, 168*
 W
 Wabash:
 Annual Report, 329*
 Concrete Bridge Over Sangamon River, 556*
 Finances, 327*
 Wallula Pacific, 291*
 Warehousing, Relation of, to Transportation, 195
 Washington:
 Railroad Building in, 291*
 State R. R. Commission Investigation of Cost of Construction, 302*
 Washington & Great Northern, 291*
 Washington, Baltimore & Annapolis:
 Single Phase Equipment, 313
 Washington Correspondence, 57, 591,
 Washington Union Station, 100*
 Water:
 Lake Shore Plant, 460*
 Waterproofing, Mistakes in, 146
 Wells-Fargo Express Company:
 Effort to Get Larger Dividends, 70*
 Operations of, 70*
 Wells Light Manufacturing Co.:
 Wallwork's Electric Lamp Bracket, 54* (G. N. S.)
 Western Maryland:
 Annual Report, 545*
 Western Pacific:
 Status, 270*, 349*
 Western Union Telegraph Co.:
 Private Car, 335*
 Westinghouse, Church, Kerr & Co.:
 Electrical Equipment of Hornell Sheds of the Erie, 518*, 526*
 Westinghouse Elec. & Mfg. Co.:
 Annual Report, 132*
 Pittsburg Rys. Co. Power Plant, 21 (G. N. S.)
 Westinghouse Mach. Co.:
 Pittsburg Rys. Co. Power Plant, 21 (G. N. S.)
 West Jersey & Seashore:
 Atlantic City Wreck, 373*, 396, 405
 Electrification, 72 (G. N. S.), 415*
 Electro Pneumatic Signals, 298*
 Passenger Train Electric Motor Cars, 417*
 Wheel:
 Cast Iron, M. C. B. Recommendations, 279*
 Curve Resistance, 138*
 Foreign Car Wheel Practice, 230*
 Taper of Tread, 279*
 Wear of Locomotive Tires, 83*
 Wheeling & Lake Erie:
 Annual Report, 449*
 Single Track Train Operation, 454*
 Window:
 National Window Fixtures, 80* (G. N. S.)
 Wire (See Signal; also Telegraph)
 Wisconsin (Central):
 Annual Report, 378*
 Change in Control, 378*
 Wood (See Timber)
 Wooden Railroads, 140, 260*
 Worcester Consolidated Street Ry.:
 Results of Operation, 96
 Works (See Shops)
 Y
 Yale University:
 Treasurer's Report, 278*
 Yards and Terminals:
 Boston Terminal on Labor Day, 102 (G. N. S.)
 C. & N.-W. at Chicago, 301*, 314*
 Chicago Conditions, 301*
 Chicago, Indiana & Southern, Gibson, Ind., 262*
 Freight Terminal Facilities at St. Louis, 249
 Grand Trunk Freight Terminal at Toronto, 588
 Harbor Improvements, Penna. R. R. and Lake Shore at Ashtabula, 339*
 How Best to Get Cars Through Large Terminals, 224
 Indiana Harbor R. R., Gibson, Ind., 262*
 N. Y. C. & H. R. at New York, Growth of, 352*
 N. Y. C. & H. R. New York Terminal Electrification, 293*
 Penna. R. R. at New York, 352*, 359
 P. Ft. W. & C. Engine Terminals at Allegheny, 307*
 Railroad Terminal Problem, 352*
 Rock Island-Frisco Freight Terminals at St. Louis, 322*
 South Station, Boston, 422*

NEW PUBLICATIONS.

- American Street Railway Investments, 52
 Analysis and Softening of Boiler Feed Water, The, 153
 Car Builders' Dictionary, 32
 Catechism of Electric Headlight, 355
 Catechism on Producer Gas, 193
 Consolidation Type Freight Locomotives, 331, 450
 Cost of Locomotive Operation, 427
 Directory of the Alumni of Stevens Institute of Technology, 193
 Economics of Railroad Construction, The, 569
 Elements of Gas Engine Design, 427
 Elements of Machinery, The, 193
 Executive Officers and Directors of American Railways, 153
 General Specifications for Steel Railroad Bridges and Viaducts, 427
 Historic Locomotives, 547
 Index of Papers and Subjects Discussed by Railway Clubs, 331
 Locomotive Actuelle, La, 4
 Management of Electrical Machinery, 450
 Manual of Field Engineering, 427
 Proceedings of the American Railway Master Mechanics' Association, 330
 Proceedings of the Fortieth Annual Convention of the Master Car Builders' Association, held at Atlantic City, N. J., June, 1906, 474
 Railroad Accidents, Their Cause and Prevention, 260
 Railroad Location, Surveys and Estimates, 530
 Railway Signal Association, Digest of Proceedings for Eleven Years, 32
 Record of Recent Construction, 93
 Report of the Electric Railway Test Commission to the President of the Louisiana Purchase Exposition, 378
 San Francisco Earthquake and Fire, The, 330
 Steel Square as a Calculating Machine, The, 547
 Stray Currents from Electric Railways, 287
 Strength of Materials, 474
 Things That Are Usually Wrong, 427
 Universal Directory of Railway Officials, 112
 Water Softening and Treatment, 173
 Workings of Railroads, The, 569

[Portraits are indicated thus*; All references are to the General News Section.]

Reilly, F. C., 49
Ripley, Joseph, 80*
Rosenberg, C. C. (See General Index)
Sim, J. J., 28
Thomas, D. R., 49
Thompson, P. B., 36
Titus, J. F., 142*
Tompkins, H. M., 95
Tuttle, Lucius (See General Index)
Vauchain, Samuel (See General Index)
White, J. A., 36
Wilgus, Herbert S., 120

[Portraits are indicated thus[†]; All references are to the General News Section.]

Sage, Russell, 23
Shellabarger, Edgar, 23
Smith, Col. Alva J., 28
Smith, E. C., 35
Smith, R. W., 28
Spencer, Samuel (See General Index)
Tedford, J. W., 119
Welling, J. C., 134*
Yeomans, James D., 119

[All references are to the General News Section.]

Jamesstown, Chautauqua & Lake Erie, 158
Jonesboro, Lake City & Eastern, 150

Kansas City Southern, 15, 158, 172
Kansas City Terminal, 172
Kentucky & Indiana Bridge & Railroad, 127
Kentucky Valley, 15
Kingston & Pembroke, 127

Lake Erie & Pittsburgh, 103
Lake Erie & Western, 158
Lake Shore & Michigan Southern, 23, 29, 36, 49,
88, 97, 158, 165, 172, 182
Las Vegas & Tonopah, 4
Lehigh & Hudson River, 112
Lehigh & New England, 56, 97, 181
Lehigh Valley, 29, 41, 97, 143, 181, 182
Lexington & Eastern, 55
Litchfield & Madison, 127
Little Falls & Dolgeville, 28
Live Oak, Perry & Gulf, 35
Louisiana & Arkansas, 9, 36
Louisiana & Northwest, 165
Louisiana Western, 29
Louisville & Henderson, 165, 172
Louisville, Henderson & St. Louis, 73

Macon, Dublin & Savannah, 150
Manistique, Marquette & Northern, 127
McCloud River, 97
Mexican Central, 4, 23, 49, 97, 112, 135, 150, 182
Michigan Central, 23, 29, 36, 97, 158, 172
Midland Valley, 35, 36, 97, 165
Millen & Southwestern, 172
Minneapolis, St. Paul & Sault Ste. Marie, 127
Mineral Range, 43
Mississippi Central, 35, 148
Missouri & North Arkansas, 150
Missouri, Kansas & Texas, 79, 150, 158
Missouri, Kansas & Texas of Texas, 97
Missouri, Oklahoma & Gulf, 97
Missouri Pacific, 9, 9, 23, 29, 36, 43, 56, 112, 150,
158, 172
Mobile & Ohio, 127, 135
Montana, 35, 127
Morgan's Louisiana & Texas, 29

Nashville, Chattanooga & Tennessee, 127, 143
National R. R. of Mexico, 15, 16, 97
New Orleans & Northeastern, 16, 44, 103, 120,
105
New Orleans, Natchez & Pacific, 61
New Orleans Terminal, 15
New Park & Fawn Grove, 43
New York Central & Hudson River, 28, 49, 55, 103,
120, 127, 165, 172, 181
New York Central Lines, 120, 158, 165, 182
New York, Chicago & St. Louis, 103
New York, New Haven & Hartford, 79, 142, 182
New York, Susquehanna & Western, 67
Norfolk & Southern, 9, 16, 172, 181
Norfolk & Western, 23
Northern Pacific, 73, 120

Ohio River & Columbus, 127
Oregon R. R. & Navigation, 36
Oregon Short Line, 56, 67, 103, 135, 166

Pacific Coast Co., 3
Panama, 127
Parral & Durango, 16, 49, 49
Pennsylvania, 35, 73, 88, 103, 112, 181
Pennsylvania Lines West, 16, 23, 36, 49, 61, 67, 73, 120
Peoria & Pekin Terminal, 171
Pere Marquette, 55, 67
Philadelphia & Reading, 16, 88, 112, 158, 165

Quebec, Montreal & Southern, 55
Quincy, Omaha & Kansas City, 67

Raleigh & Charleston, 172
Rio Grande Junction, 97
Rio Grande Western, 43, 55, 97, 112, 143, 172
Roaring Creek, 4
Rock Island Company, 112, 135

St. Louis & San Francisco, 9, 43, 49, 55, 67, 88, 120, 127, 135, 143, 150, 172

St. Louis, El Reno & Western, 43
St. Louis, Iron Mountain & Southern, 36, 49, 112, 120
St. Louis, Rocky Mountain & Pacific, 67
St. Louis Southwestern, 29, 36
San Antonio & Aransas Pass, 44, 67
San Francisco & Northwestern, 49
San Pedro, Los Angeles & Salt Lake, 79, 165
Seaboard Air Line, 29, 36, 43, 67, 79, 103, 127, 135, 158, 171
South & Western, 150
Southern, 4, 15, 16, 23, 23, 23, 28, 29, 36, 44, 55, 79, 88, 127, 135, 143, 158, 171, 172, 181
Southern Indiana, 120, 127
Southern in Mississippi, 181
Southern Pacific, 4, 36, 61, 127, 143, 165
Southern Railway in Mississippi, 135
Stillmore Air Line, 35

Tehuantepec National, 127, 171
Temiskaming & Northern Ontario, 16, 73, 103, 127
Tennessee Railroad, 97
Texarkana & Fort Smith, 172
Texas & Gulf, 79, 97
Texas & Pacific, 73
Texas Southern, 79
Toledo & Ohio Central, 73

Toledo Railway & Terminal, 135
Tonopah & Goldfield, 15, 97
Trinity & Brazos Valley, 67, 120, 165

Ulster & Delaware, 97
Union Pacific, 103, 120, 143, 150, 158, 166

Valdosta Southern, 172
Vandalla, 15, 120, 135
Vera Cruz & Pacific, 36
Vicksburg, Shreveport & Pacific, 16

Wabash, 23, 28, 55, 88, 103, 120, 127, 150
Wadley & Mt. Vernon, 35
Wadley Southern, 35
Washington Terminal, 143
Western Pacific, 44
Wheeling & Lake Erie, 135
Wisconsin & Michigan, 135
Wisconsin Central, 67, 79, 88, 97, 112, 143, 165
Wrightsville & Tennille, 35, 36, 49

Yazoo & Mississippi Valley, 97
Yellowstone Park Railroad, 158

RAILROAD CONSTRUCTION.

[Maps are indicated thus*; All references are to the General News Section.]

Adirondack & St. Lawrence, 57
Alabama City, Gadsden & Attalla (Electric), 81, 98
Alabama Great Southern, 122
Alabama Railway & Power Company, 183
Alabama, Tennessee & Northern, 122
Alaska Central, 68, 113
Albany, Cairo & Gulf, 30, 89
Alberta Railway & Irrigation Company, 160
Allentown, Tamaqua & Ashland, 44
Alton, Calhoun & Quincy, 17
Amador, 106
American Electric, 113, 122
Americus, Sylvester & Southern, 25
Anderson Traction Co., 17
Anniston & Columbus, 68
Argentine Central, 37
Arkansas, Louisiana & Gulf, 62
Arkansas, Oklahoma & Western, 128
Arkansas Pacific, 113, 128
Arkansas, Red River & Paris, 37
Arkansas Southern, 167
Arkansas Valley, 44
Ashland & Western, 89
Astoria & Columbia River, 152
Aitchison, Topeka & Santa Fe, 17, 44, 68, 75, 89, 136, 152, 174, 183
Athens Terminal, 106
Atlanta & Carolina, 75, 136
Atlanta & New Orleans, 17
Atlanta, Birmingham & Atlantic, 30, 37, 50
Atlanta, Griffin & Macon (Electric), 68, 128
Atlantic & Northern Carolina, 167
Atlantic & Western, 17
Atlantic Coast Line, 17, 160, 167
Atlantic, Quebec & Western, 25
Augusta & Louisville, 68
Aurora & DeKalb, 62
Austin & Goldfield, 136

Baltimore & Ohio, 68, 122, 136, 183
Baltimore, Frederick & Hagerstown (Electric), 152
Barrie & Orillia, 174
Bay Point & Clayton, 75
Beaumont & Great Northern, 57, 129
Beaumont, Sour Lake & Western, 30
Beaver Creek, 75
Beaverton & Willburg, 152, 183
Bering, Klam & Southern, 129
Berkeley Traction, 136
Bessemer & Lake Erie, 10, 98, 152
Big Creek & Trinity Valley, 122
Big Horn, 17
Billings & Northern, 136
Birmingham & Mississippi Southern, 129
Birmingham Southern, 160, 167
Boca & Loyalton, 75
Boston & Maine, 114
Boston & New York (Electric), 90
Boston, Lowell & Lawrence (Electric), 62
Brandon, Saskatchewan & Hudson's Bay, 136
British Columbia Roads, 90
Brookville & Mahoning, 98
Brownsville, Hidalgo & Northern, 81, 144
Broxton Air Line, 160, 183
Brush Creek & Crows Run, 4
Buffalo & Lake Erie Traction, 152
Buffalo & Susquehanna, 62, 129, 144
Buffalo Creek Extension, 37
Buffalo, Lockport & Rochester (Electric), 30
Buffalo, Rochester & Pittsburgh, 10, 81
Burrard-Westminster Boundary R. R. & Navigation, 174
Burr Ferry, Brownell & Chester, 152
Butte & Plumas, 44

Cairo & Thebes, 10, 81
California Northwestern, 75
Caliente & Phipps, 17
California Roads, 160
Campton R. R., 57
Canadian Eastern, 10
Canadian Northern, 17, 25, 44, 50, 68, 75, 90, 98, 106, 136, 144, 174
Canadian Northern Ontario, 152, 167, 174
Canadian Pacific, 5, 10, 17, 30, 37, 44, 52, 57, 68, 75, 82, 90, 98, 106, 144, 160, 167

Canadian River, 90
Canadian Roads, 90, 160, 175
Canadian Southern & New York, 160
Cananea, Yaqui River & Pacific, 5, 69, 152
Cardenas R. R. & Terminal, 38, 44, 69
Carroll Mineral, 50, 62, 82
Caro Northern, 90
Catawba Valley, 69
Central California, 75
Central of Georgia, 18, 57, 69
Central Railway of Oregon, 62
Chambersburg & Western Electric, 4
Chandler & Okmulgee, 106
Charleston & Summerville (Electric), 114
Chartiers Southern, 175
Chatham, Walpoleburg & Lake Erie (Electric), 5
Cherryvale, Oklahoma & Texas, 38, 69
Chesapeake & Ohio, 122, 167
Chewahwah Valley, 152
Chesapeake & Nashville, 38
Chesapeake & Ohio, 18, 90
Chicago & Alton, 144
Chicago & Eastern Illinois, 152
Chicago & Illinois Western, 82
Chicago, Iowa & Northwestern, 152
Chicago & Milwaukee (Electric), 69
Chicago & North-Western, 5, 18*, 31, 38, 50, 82, 114, 122, 175, 183
Chicago & Southern Traction, 75
Chicago & Wabash Valley, 183
Chicago, Burlington & Quincy, 5, 18, 31, 38, 62, 160, 175, 183
Chicago, Cincinnati & Louisville, 38, 183
Chicago, Joliet & Kansas City, 50, 106, 129
Chicago, Lake Shore & South Bend (Electric), 38
Chicago, Milwaukee & St. Paul, 5, 25, 31, 38, 62, 69, 82, 136, 152, 160, 167, 175
Chicago, Milwaukee & St. Paul of South Dakota, 51
Chicago, New Washington & Bucyrus (Electric), 38, 57
Chicago Northwestern, 69
Chicago, Rock Island & Gulf, 107
Chicago, Rock Island & Pacific, 51, 62, 90, 98, 107, 152, 167
Chicago, St. Paul, Minneapolis & Omaha, 38, 82
Chilman & Pacific, 44
Cincinnati & Birmingham Air Line, 90
Cincinnati, Bluffton & Chicago, 136
Cincinnati, Columbus & Toledo, 25, 31
Cincinnati, New Orleans & Texas Pacific, 44, 57, 90
Citizens' Railway & Light Co., 69
City & Elm Grove, 57
Claremont Railroad (Electric), 75
Cleveland, Alliance & Mahoning Valley (Electric), 175
Cleveland & Sharon Traction, 175, 183
Cleveland, Brooklyn & Elyria (Electric), 160
Cleveland, Cincinnati, Chicago & St. Louis, 90, 114, 129
Clinton, Cheyenne & Canadian, 5
Coal & Coke, 114*
Coeur d'Alene & Spokane, 44, 98
Coffeeville & Memphis, 129
Colchester Coal & Railway Co., 75
Colorado & Southern, 10, 38, 82, 114, 122, 167
Colorado-Utah Southwestern, 98
Columbia River & Oregon Central, 152
Columbus & Southern, 152
Columbus, Magnolia Springs & Delaware Interurban, 114
Colville & Columbia River, 51
Conemaugh Valley Street Railway, 63
Consolidated Railway (N. Y., N. H. & H.), 18
Coos Bay, Roseburg & Eastern, 57
Corinth & Shiloh (Electric), 145
Corvallis & Auburn, 75, 107
Corvallis & Eastern, 152
Council Bluffs, Taber & Southern (Electric), 98
Covington & Southwestern, 122, 160
Crawford Bay & St. Mary's, 160, 175
Cross Creek, 17
Cross Island Traction, 31
Crystal River & San Juan, 136, 160
Cuba Railroads, 5
Cuba Roads, 17
Cullman & Southwestern, 75

Dakota & Great Northern, 136
Dakota Midland, 10, 25, 31
Dawson, El Paso & Southwestern, 136
DeKalb, Sycamore & Interurban Traction, 18
Delaware & Eastern, 145, 152, 167
Delaware & Hudson, 10, 75, 122, 136, 145
Delaware Subway, 122
Denopolis & Linden, 122
Denver, Northwestern & Pacific, 122
Denver & Omaha Short Line, 18
Denver & Rio Grande, 11, 25, 82, 90, 160
Denver, Enid & Gulf, 18, 44, 62, 167, 183
Denver, Kansas & Gulf, 44, 63
Denver, Northwestern & Pacific, 114
Denver Transcontinental, 69
Des Moines, Winterset & Creston (Electric), 63
Detroit & Macdonald, 136
Detroit, Flint & Saginaw (Electric), 152
Detroit, Toledo & Ironton, 57
Duluth & Northern Minnesota, 167
Duluth, Mesaba & Northern, 70
Duluth, Rainy Lake & Winnipeg, 122
Duquoin Rapid Transit, 90

Eagle Valley, 82
East St. Louis, Columbia & Waterloo, 75, 129
Eastern Railways Company, 63
Eastern Texas, 152
Edmonton (Alberta) Roads, 107, 175
Edmonton, Dunwoody & British Columbia, 175
Eldorado, Marion & Southwestern, 11, 18, 38, 63
Electric Terminal of Kansas City, 51
Elk, Birch & Gauley, 63
Elkhorn Southern, 114
Elmira & Seneca Lake Traction, 11
El Paso & Southwestern System, 98
Erie, 31, 44, 90, 161, 183
Erie, London & Tilsonburg (Electric), 11
Essex County Traction, 83
Essex Terminal, 11
Evansville, Mt. Carmel & Northern, 114

Falmouth, 123, 136
Farmers' Grain & Shipping Co., 136
Florida East Coast, 11
Florida Roads (Electric), 123
Fording Valley, 38
Fort Dodge, Des Moines & Southern, 18
Fourche River Valley & Indian Territory, 167, 184
Fox River (Electric), 51
Fox River Valley (Electric), 11
Front Royal, Rappahannock & Tidewater, 25, 58, 75

Gainesville & Gulf, 75
Gainesville Midland, 167
Gassaway, Elk River & Huttonsville, 5
Georgia & Florida, 18
Georgia & Florida Pine Belt, 91
Georgia Central & Gulf, 18
Georgia Eastern, 91
Georgia, Florida & Alabama, 18, 129, 160
Georgia Roads (Electric), 75, 184
Georgia, Southwestern & Gulf, 44
Georgian Bay & Seaboard, 145
Gila Valley, Globe & Northern, 161
Glen Mary Railway Company, 175
Glennville & Kanawha, 129
Grand Trunk, 107, 129
Grand Trunk Pacific, 25, 31, 44, 69, 83, 90, 98, 107, 161
Granite City & East St. Louis Terminal, 18
Gray's Harbor & Columbia River, 18
Great Northern, 51, 75, 83, 107, 123, 137, 145, 152, 167
Great Northern Coal & Coke, 129
Greenville & Newnan, 58
Greenville & Rollingford (Electric), 75
Greenwich & Johnsonville, 69, 83
Gulf & Sabine River, 107
Gulf, Colorado & Santa Fe, 38, 152, 167
Gulfport & Northwestern, 153, 161
Gurley & Paintrock Valley, 83

Halifax & Southwestern, 11, 45, 91*
Hamilton, Waterloo & Guelph (Electric), 18
Hampshire Southern, 75

RAILROAD CONSTRUCTION—Continued.

[Maps are indicated thus*; All references are to the General News Section.]

- Hancock & East Branch, 18, 167
 Harrisburg & Ohio River, 161
 Hattiesburg & Mammoth Springs (Electric), 63
 Hidalgo & Northeastern, 145
 Hillsboro, Klammswick & Northern, 18, 51
 Hornell, Bath & Lake Keuka (Electric Company), 114
 Houston & Texas Central, 18, 38
 Houston, Sabine & Red River, 5
 Houston, Sabine & Red River, 167
 Hudson Companies, 98
 Huntington & Broad Top Mountain, 167
 Huntington Railroad (Electric), 107
 Huntsville & Birmingham (Electric), 123
 Idaho & Northwestern, 31
 Idaho, Montana & California, 69
 Idaho Northern, 114, 145
 Illinois Central, 38, 137, 184
 Illinois, Iowa & Minnesota, 167
 Ixaco Railway & Navigation, 137, 161
 Indian Central, 114, 167
 Indian Creek & Pound River, 145
 Indiana Clearfield & Eastern, 45
 Indiana Union Traction, 18
 Indianapolis & Louisville, 184
 Indianapolis, Huntington, Columbia City & Northwestern (Electric), 45, 63
 Indianapolis, New Castle & Toledo (Electric), 35
 Indianapolis Southern, 38
 Indianapolis Western Traction, 69
 Indian Creek & Pound River, 58
 Indian Valley, 45
 Inland Empire (Electric), 31, 45
 Intercolonial, 75
 Interior & West Virginia, 11
 Interoceanic, 11, 83
 Interstate Railway (Missouri), 11
 Iowa & Northwestern, 114
 Iowa Central, 123
 Iowa City, Montezuma & Western (Electric), 11
 Jackson, Pascagoula & Gulf, 115
 James Bay, 11
 Jasper & Eastern, 38
 Jennings & Southwest, 38
 Johnstown, Elensburg & Northern, 51
 Kalamazoo, Gull Lake & Northern, 31
 Kansas City, Lawton & Pacific, 38, 93
 Kansas City, Mexico & Orient, 38, 98, 123, 175
 Kansas City Terminal Co., 18
 Kansas City Western (Electric), 38
 Kentucky North & South, 115
 Kentucky Virginia, 145
 Keystone Air Line (Electric), 83
 Kingsport Southern, 63
 Kingston, Smith's Falls & Ottawa, 91
 Klondike Mines, 137, 175
 Lafayette & Chicago (Electric), 39
 La Gloria Transportation Co., 19
 Lake Charles Northern, 137
 Lake Erie & Pittsburgh, 25, 31
 Lake Shore & Michigan Southern, 98
 Lake Shore Southern, 137
 Lake Superior Southern, 115, 161
 Lancaster & Northern, 25
 Las Vegas & Tonopah, 11, 39, 69, 161
 Laurel Railways, 115
 Lehigh Valley, 58, 91
 Lexington & Eastern, 58
 Liberty White, 25, 58
 Linnaeus & San Carlos, 145
 Long Island, 69, 137
 Lorain & Ashland, 11, 31, 161
 Lorain, Ashland & Southern, 11
 Louisiana & Pacific, 5
 Louisiana & Pine Bluff, 98
 Louisiana Central, 145
 Louisiana Railway & Navigation Co., 129
 Louisville & Arkansas, 39
 Louisville & Eastern, 39
 Louisville & Nashville, 11, 39, 63, 83, 129, 167
 Louisville, New Albany & Corydon, 161
 Lucknow Railway, 145
 McCloud River, 45, 63
 Macon, Dublin & Savannah, 19
 Mackenzie-Mann System, 145
 Madisonville, Hartford & Eastern, 11
 Madras & Eastern, 137, 161
 Maine Central, 5
 Maine Roads (Electric), 63
 Malad Valley, 152
 Malone, Fort Covington & Hopkins Point, 25
 Manila & Southwestern, 184
 Manila Railway, 58
 Manistee & Grand Rapids, 39
 Manitoba Radial, 145
 Marianna, Brinkley & Western, 107, 115
 Marlboro & Deepwater, 19
 Marlborough R. R., 39
 Mason & Oceana, 107
 Mayfield & Columbus, 11
 Memphis, Paris & Gulf, 31, 39
 Mexican Central, 39, 69, 99
 Mexican International, 31, 115, 145
 Mexican Pacific, 63
 Mexican Roads, 19, 45, 63, 83, 99, 123, 137
 Mexico, Oaxaca & Yucatan, 99
 Michigan Roads (Electric), 129
 Midland & Manitoba, 51
 Midland of Manitoba, 137
 Midland Valley, 5
 Mid-Oregon & Eastern, 39
 Milltown Air Line, 91
 Milwaukee & Fox River (Electric), 145
 Milwaukee & Northern (Electric), 91
 Mineral Belt, 145
 Minidoka & Southwestern, 152
 Minneapolis & Great Northern, 137
 Minneapolis & Rainy River, 39, 167
 Minneapolis & St. Louis, 31, 123, 175, 184
 Minneapolis & St. Paul Suburban, 153
 Minneapolis, St. Paul & Sault Ste. Marie, 129
 Minnesota & International, 167
 Mississippi Central, 19, 31, 123, 175
 Mississippi Roads, 123, 175
 Missouri & North Arkansas, 45, 91, 123
 Missouri, Arkansas & Southwestern, 83
 Missouri, Kansas & Texas, 19, 51, 137, 145
 Missouri, Oklahoma & Gulf, 123
 Missouri Pacific, 63, 129, 137, 167, 184
 Missouri River & Gulf, 39
 Missouri Roads, 45
 Mitchell Mining Co., 5
 Mobile & Ohio, 39, 51, 63
 Mobile & Western, 75, 91
 Moline, Rock Island & Eastern Traction, 91
 Monongahela, 11
 Morella & Tacumbana, 51, 75
 Morgantown & Southern (Electric), 91, 107
 Muncie & Portland Traction, 39
 Munising Railway, 129
 Naperville Junction Railway, 11
 Natchez & Eastern, 175
 Natchez, Columbia & Mobile, 167
 National R. R. of Mexico, 45, 75, 123
 Nevada California Oregon, 184
 Nevada Northern, 19, 91
 New Brunswick Roads (Electric), 175
 Newcastle & New Wilmington, 175, 184
 New Orleans Great Northern, 123, 175, 184
 New Orleans & Northern Midland, 69
 New Orleans, Crowley & Western, 145
 New Orleans Great Northern, 123, 175, 184
 New Orleans, Natchez & Pacific, 69
 New Park & Fawn Grove, 45
 New York & Queens County (Electric), 19
 New York, Auburn & Lansing (Electric), 25, 39, 51
 New York Central & Hudson River, 45, 145
 New York Central Lines, 115
 New York City Subways, 11, 115, 161
 New York, New Haven & Hartford, 51, 58, 123, 167, 184
 New York, Ontario & Western, 45
 New York, Pittsburg & Chicago Air Line (Electric), 45
 New York, Westchester & Boston, 63, 161
 Nitanny, 45
 Norfolk & Washington Air Line, 58
 Norfolk & Southern, 99, 167
 Norfolk & Western, 11, 83
 North Coast, 31, 107
 North St. Louis & Suburban (Electric), 51
 Northeastern, 11
 Northern Electric, 115
 Northern Michigan (Electric), 123
 Northern Pacific, 3, 19, 51, 69, 83, 91, 99, 167
 North Shore & Western (Electric), 115
 Oak Point & Elyria, 75
 Oaxaca & Oriente, 58
 Ocean Shore (Electric), 123
 Ocilla & Valdosta, 129
 Ohio River & Western, 25
 Ohio Roads (Electric), 25
 Oklahoma & Canadian River, 168
 Oklahoma Central, 25
 Oklahoma Northern, 152
 Oklahoma, Texas & Gulf, 145, 175
 Oklahoma, Texas & Western, 115, 129
 Omaha & Denver Short Line, 5
 Opelousas, Gulf & North-Eastern, 83
 Orange & Keyville, 129
 Oregon & Washington, 75, 137, 152
 Oregon Electric Railway, 25, 99
 Oregon Railway & Navigation Co., 31, 83, 137, 152, 161
 Oregon Short Line, 107, 168
 Oregon, Washington & Idaho, 152
 Oregon Western, 75
 Orizaba Railway Co. of Mexico City, Orizaba & Guthrie, 91
 Orford Mountain, 145
 Osceola, Little River & Western, 75
 Otsego Valley, 99
 Overton County, 99
 Pacific & Eastern, 5, 129
 Pacific & Idaho Northern, 184
 Pacific Railway & Navigation Company, 181
 Palma, Suana & Western, 19
 Pan-American, 19
 Paragould South-Eastern, 168
 Patapsco & Susquehanna, 123
 Paul Smith's (Electric), 69
 Paxette Valley, 184
 Pearl River, 19
 Peekskill Lighting & Railroad Co., 31
 Pelham & Florida, 63
 Pelham & Havana, 51
 Peninsular (Electric), 123
 Pennsylvania, 12, 25, 31, 51, 58, 69, 83, 145, 161, 175
 Pennsylvania, Beach Creek & Eastern, 45
 Pennsylvania Lines, 129
 Pennsylvania Lines West, 39, 45
 Pennsylvania Roads (Electric), 146
 Peoria & Canton (Electric), 161
 Peoria, Bloomington & Champaign (Electric), 184
 Peoria Railway Terminal, 153
 Perth Amboy & Staten Island (Electric), 161
 Philadelphia & Reading, 19, 58, 123
 Philadelphia, Baltimore & Washington, 58, 69
 Philadelphia Interurban Line, 25
 Philadelphia Railway Co., 31
 Phour Del Rio Northern, 12
 Pittsburg & Lake Erie, 123
 Pittsburg & Northeastern, 146
 Pittsburg, Connellsville & Wheeling, 51
 Pittsburg, Harmony, Butler & Newcastle (Electric), 45
 Pittsburg Railroad, 161
 Pittsburg, Shawmut & Northern, 99
 Point Judith, 31
 Poland, Boardman & Canfield, 5
 Port Angeles & Olympia, 51
 Port Angeles Peninsula, 51
 Port Townsend Southern, 5
 Portland & Northern (Electric), 63
 Portland & Rumford Falls, 63
 Portland & Seattle, 25, 83
 Porto Rico Roads, 19
 Powell's River, 115
 Prescott & Northwestern, 39
 Prince Albert & Northern Saskatchewan, 63
 Providence Terminal Co., 184
 Putnam & Westchester Traction, 19, 31
 Quebec & Lake St. John, 39
 Quebec, Bridge & Railway, 83
 Quebec City Railroads, 175
 Quebec, Montreal & Southern, 137, 146
 Railway Valley, 39
 Raleigh & Pamlico Sound, 5, 69
 Raleigh & Southport, 25
 Rio Grande, 92
 Rio Grande Western, 12, 184
 Roanoke & Northern, 39
 Rochester-Corning Elmira Traction, 39, 167
 Rochester, Syracuse & Eastern (Electric), 137
 Rock Island, Arkansas & Louisiana, 63
 Roscoe, Snyder & Pacific, 167, 129
 Roswell & Eastern, 115
 St. Clair Terminal, 107
 St. James Bay, 107
 St. Joseph & Grand Island, 153
 St. Joseph & Nodaway Valley, 6
 St. Joseph & Southern, 39
 St. Joseph Belt & Interurban, 130
 St. Leon, 161
 St. Louis & North Arkansas, 12, 45
 St. Louis & San Francisco, 25, 45, 63, 130
 St. Louis, Enid & San Diego, 69
 St. Louis, Hillsboro & Southern (Electric), 31
 St. Louis, Iron Mountain & Southern, 139
 St. Louis, Lakewood & Grant Park (Electric), 75
 St. Louis, Rocky Mountain & Pacific, 39, 92, 130
 St. Louis South-Western, 168
 St. Louis, Webster & Valley Park, 39
 Sacramento Valley & Eastern, 84
 Saginaw, Owosso & Lansing (Electric), 137
 Salem-Melham (Electric), 99, 123
 Salina & Northwestern, 76
 San Antonio & Gulf, 31
 San Diego & Arizona, 175
 San Francisco, Idaho & Montana, 99, 146
 San Francisco & Northwestern, 76
 San Juan, 76
 San Pedro, Los Angeles & Salt Lake, 25, 161
 San Saba Valley, 153
 Santa Fe, Liberal & Englewood, 51
 Savannah, Augusta & Northern, 168
 Savannah, Statesboro & Western, 115
 Schenectady & Margaretville, 31, 168
 Schenectady & Southwestern, 146
 Schoodic, 26
 Seaboard Air Line, 19, 99
 Sharon & South Sharon (Electric), 19
 Shelby County, 92, 115
 Shreveport & Northeastern, 51
 Shreveport, Alexandria & Southwestern, 6
 Sierra Pacific, 76, 146
 Silver Peak, 130
 Silverton Northern, 64
 Sioux Falls & Sioux City (Electric), 115
 Sioux City, Pierre & Northwestern, 64
 Sonora, 69
 South & Western, 26, 92, 99, 123
 South Bethlehem & Sacon (Electric), 26
 South Dakota Roads, 175
 South Omaha & Western, 153
 Southern, 12, 19, 64, 84, 137, 161, 168
 Southern Indiana, 130
 Southern Pacific, 6, 19, 31, 51, 58, 69, 76, 84, 92, 123, 130, 161, 168, 184
 Southwestern Interurban, 64
 Southwestern Missouri (Electric), 64
 Spokane & Big Bend Electric, 46
 Spokane International, 92, 168
 Spokane-Pend d'Oreille Rapid Transit Co., 32
 Spring City, Athens & Pikeville, 92
 Spring Hazel & Trinity River, 153
 Springfield, Wilmington & Cincinnati (Electric), 146
 Springfield Railway (Electric), 107
 Springfield South-Western, 168
 Stearnstown, 12
 Suffolk Traction, 6
 Sumpter & Choctaw, 146
 Swan Creek, 137
 Tallahassee, Perry & Southeastern, 99
 Tallulah Falls, 130
 Tampa & Jacksonville, 64, 76
 Tecumseh & Norman Traction, 153
 Tebontepet National, 99
 Teniskaming & Northern Ontario, 12, 84, 107, 129, 152
 Tennessee & North Carolina, 130
 Tennessee Railway, 39, 51, 69
 Texas & Gulf, 39
 Texas & Pacific, 19, 84
 Texas Central, 130
 Texas, New Mexico & Pacific, 32
 Texas Northern, 46
 Texas, Oklahoma & Northwestern, 107
 Texas Railway Company, 175
 Texas Traction, 99
 Thomasville & Gulf, 26
 Thomasville & Northeastern, 92

Thomasville, Sparks & Northeastern, 20
 Thornton & Alexandria, 20
 Tidewater Development Co. (Electric), 6
 Toledo & Indiana (Electric), 107, 153
 Toledo, Port Clinton & Lake Side, 115
 Tonopah & Tidewater, 153
 Topeka & Northwestern, 20, 153
 Trans-Alaska-Siberian, 124
 Tremont & Gulf, 99
 Trinity & Brazos Valley (Colorado Southern), 64, 115
 Tuscarora Traction Co., 20
 Union Pacific, 12, 20, 84, 99, 138, 153
 United Railways of St. Louis, 51
 Valdez, Marshall Pass & Northern, 46
 Valdosta, Moultrie & Northwestern, 20
 Vallejo & Northern (Electric), 153, 184
 Vancouver, Victoria & Eastern, 84, 138, 146
 Vandalla, 153
 Velden & Northwestern, 76
 Versailles & Sedalia, 12, 26, 46
 Vining & Coleman, 64

Virginia & Kentucky, 92
 Virginia & Truckee, 64, 76
 Wabash, 12, 20, 64, 92, 99, 124, 146
 Washington & Gettysburg, 46
 Washington & Great Northern, 138, 146
 Washington & Northern, 84
 Washington, Baltimore & Annapolis (Electric), 84
 Washington, Patuxent & Drum Point, 124
 Washington Roads, 51
 Waycross, Baxley & Vidalia, 130
 Weatherford, Mineral Wells & Northwestern, 138
 Westchester Street Railway, 138
 Western Alleghany, 100
 Western & Gulf, 130, 154
 Western Maryland, 6
 Western Missouri Interurban, 115
 Western Oklahoma, 39
 Western Pacific, 46, 52, 58, 70, 76, 84
 West Coast Traction, 46
 West Jersey & Seashore, 32
 West Penn. Railway Co. (Electric), 76
 Western Pacific, 107

Wheeling & Lake Erie, 20, 153
 West Shore Traction, 124
 Wichita Valley, 168
 Wilkesbarre & Hazelton (Electric), 168
 Wise Terminal, 84
 Whitehall & Granville (Electric), 64
 White Top, 76
 Wilkes & Lincoln, 52
 Wisconsin Central, 64
 Wolf River, 52
 Woodlawn Street Railway (Electric), 184
 Wynne, Newport & Western, 39, 64
 Wyoming & North-Western, 20
 Yakima Valley Traction, 46
 Yankton & Gulf, 175
 Yankton & Southern, 146
 Yazoo & Mississippi Valley, 20, 184
 Yellow River, 39
 Yellowstone Park Railroad, 154, 161
 Yosemite Valley, 100, 154, 168
 Youngstown & Ohio River (Electric), 20, 32, 168
 Youngstown & Southern, 6, 26

RAILROAD CORPORATION NEWS.

[All references are to the General News Section.]

Alabama Northern, 100
 Alabama, Tennessee & Northern, 138
 Alafia, Manatee & Gulf Coast, 40
 Albany & Susquehanna, 108, 124
 Arkansas Southern, 80
 Atchison, Topeka & Santa Fe, 40, 46, 92, 108, 124, 154, 162
 Atlanta & Charlotte, 162
 Atlanta, Birmingham & Atlantic, 6, 100, 154
 Atlantic Coast Line, 20, 154
 Auburn & Syracuse Electric, 52
 Baltimore & Annapolis Short Line, 40
 Baltimore & Ohio, 12, 20, 46, 58, 70, 76, 115, 146
 Baltimore Terminal Co., 108
 Bangor & Aroostook, 124
 Beaver Valley, 92
 Berkeley Railroad, 32
 Birmingham Southern, 6
 Black Mountain, 6
 Boise, Nampa & Owyhee, 26
 Boston & Maine, 6, 26, 52, 92, 138
 Boston, Revere Beach & Lynn, 46
 Brooklyn Rapid Transit, 26
 Buffalo & Lake Erie Traction, 154
 Buffalo & Susquehanna, 124
 Buffalo, Bradford & Kane, 70
 Buffalo, Rochester & Pittsburgh, 176
 Camden Interstate (Electric), 46
 Canadian Northern, 32, 46, 76, 92, 108, 115, 130, 162
 Canadian Northern Ontario Railway, 26, 32
 Canadian Northern Quebec, 40, 92, 115
 Canadian Pacific, 12, 26, 32, 46, 58, 76, 92, 100, 124, 168
 Canton-Akron Consolidated Ry., 58
 Carrollton Short Line, 138
 Central New England, 76
 Central of Georgia, 46, 162
 Charlotte Harbor & Gulf, 40
 Chateaugay & Northern, 40
 Chattanooga (Tenn.) Railways, 146
 Chattanooga Southern, 100
 Chesapeake & Nashville, 40
 Chesapeake & Ohio, 32, 76, 124, 162, 176
 Chicago & Alton, 70, 130
 Chicago & Eastern Illinois, 70
 Chicago & North-Western, 52, 70
 Chicago & Wabash, 40
 Chicago, Burlington & Quincy, 64
 Chicago, Cincinnati & Louisville, 115
 Chicago, Indiana & Eastern, 46
 Chicago, Indiana & Southern, 40
 Chicago, Indianapolis & Louisville, 154
 Chicago, Milwaukee & St. Paul, 52, 58, 108, 146, 176
 Chicago, Peoria & St. Louis, 12, 184
 Chicago Railways Co., 12, 64
 Chicago, Rock Island & Pacific, 76, 176
 Chicago, St. Paul, Minneapolis & Omaha, 70
 Chicago Southern, 108
 Chicago Union Traction, 12, 46, 64, 84
 Cincinnati, Hamilton & Dayton, 12, 46, 108, 115
 Cincinnati, New Orleans & Texas Pacific, 154
 City Electric Railway (Rome, Ga.), 168
 Cleveland, Akron & Columbus, 84
 Cleveland & Pittsburgh, 76
 Cleveland & Sharon Electric, 162
 Cleveland & Sharon Traction Co., 162
 Cleveland, Cincinnati, Chicago & St. Louis, 76, 146
 Coal and Coke, 58
 Colorado & Southern, 32, 76
 Columbia & Western, 158
 Connecticut Railway & Lighting Co., 130, 184
 Consolidated (N. Y., N. H. & H. Electric Lines), 52, 70, 76, 116, 130, 154, 162, 184
 Coos Bay, Roseburg & Eastern, 52
 Cumberland Corporation, 26
 Cumberland Valley, 168
 Delaware Railroad, 184
 Delaware & Hudson, 26, 52, 108, 124
 Delaware, Lackawanna & Western, 162
 Dunkirk & Fredonia (Electric), 154
 Eastern of Alabama, 100
 Erie, 12, 64, 162
 Evansville & Terre Haute, 70
 Fitchburg Railroad, 92
 Forest City Railway, Cleveland, 20
 Fort Smith & Western, 32, 52
 Georgia & Florida, 70
 Georgia Southern & Florida, 138
 Glens Falls, 52
 Grand Trunk, 108
 Grand Trunk Western, 84
 Grand Trunk Pacific, 46, 58

Gray's Point Terminal, 100
 Great Northern, 32, 100, 146, 154, 168
 Great Northern of Canada, 40, 168
 Green Bay & St. Paul, 116
 Green Bay & Western, 116
 Gulf & Interstate, 46, 154
 Gulf & Ship Island, 108
 Gulf, Colorado & Santa Fe, 154
 Hartford & Springfield Street Railway, 20
 Hocking Valley, 6, 40, 92, 108
 Houston Belt & Terminal Co., 70
 Hudson Companies, 100, 130
 Hudson Valley, 26
 Idaho Northern, 26
 Illinois Central, 20, 40, 116, 130, 138
 Indiana, Columbus & Eastern Traction, 6
 Indianapolis & Cincinnati Traction, 6
 Indianapolis & Louisville, 154
 Indianapolis Southern, 30
 Inland Empire, 154
 Interborough Metropolitan, 6
 Interborough Rapid Transit, 84, 138, 146
 Intercollaborial, 46
 International & Great Northern, 6
 Interoceanic of Mexico, 162
 Iowa Central, 76
 James Bay Railway, 26
 Kanawha & Michigan, 40, 92
 Kansas City, Fort Scott & Memphis, 138
 Kansas City, Mexico & Orient, 11, 20, 26, 92
 Kansas City Southern, 6, 64, 84, 116, 146
 Kansas City Terminal, 20
 Lake Erie & Pittsburgh, 108
 Lake Shore & Michigan Southern, 162
 Lake Shore Electric, 130
 Lehigh Coal & Navigation, 12
 Lehigh Valley, 6, 20, 76, 92, 176
 Little Falls & Delco, 32
 Louisiana & Arkansas, 116
 Louisville & Nashville, 40, 58, 100, 162
 Macon, Dublin & Georgia, 20
 Macon, Dublin & Savannah, 154
 Maine Central, 70
 Manhattan Railway, 84, 146
 Mahoning Investment Co., 176
 Manila Railway, 176
 Manila Railroad, 176
 Maricopa, Phoenix & Salt River Valley, 84
 Maryland Electric, 40
 Media, Middleton, Aston & Chester (Elec.), 20
 Mexican Central, 176
 Mexican Railway, 124
 Michigan Central, 12, 162
 Minneapolis, St. Paul & Sault Ste. Marie, 130
 Missouri & North Arkansas, 46, 64
 Missouri, Kansas & Texas, 52, 58
 Missouri, Kansas & Texas of Texas, 6
 Missouri Pacific, 58
 Mohawk Valley (N. Y. C. & H. R. Electric Lines), 20
 Nashville Railway & Light, 26
 National of Mexico, 6, 20, 162
 New Brunswick Ry., 40
 New England Investment & Security Co., 70, 76, 124, 176
 New Orleans & Northeastern, 162
 New York & Long Island, 52
 New York & Portchester, 146
 New York & Queens County (Electric), 84
 New York Central & Hudson River, 32, 70, 76, 100, 108, 138, 162
 New York Central Lines, 12, 40, 100, 138, 168
 New York, Chicago & St. Louis, 64
 New York, New Haven & Hartford, 20, 76, 100, 116, 162, 184
 New York, Ontario & Western, 46, 130
 New York, Westchester & Boston (Elec.), 20, 146
 Nome-Arctic Railway, 70
 Norfolk & Southern, 84, 116
 Norfolk & Western, 12, 20, 46, 52, 116, 168
 North American Company, 12
 Northampton & Herford, 130
 North Shore, 12
 Northern Central, 52, 168
 Northern Chicago Street R. R., 84
 Northern Pacific, 32, 76, 130, 138, 176
 Northwestern Elevated (Chicago), 52
 Ohio River & Western, 130
 Oregon Short Line, 138
 Pacific Mail Steamship Co., 124
 Pennsylvania, 20, 52, 64, 76, 92, 116, 130, 138, 162, 168
 Pennsylvania Company, 34, 146

Pennsylvania Eastern
 Pennsylvania System, 40
 Pennsylvania & Mahoning Valley (Electric), 72
 Pere Marquette, 12, 116
 Peoria & Pekin Terminal, 130, 154
 Peoria Railway Terminal, 154
 Philadelphia & Reading, 130, 162
 Philadelphia & Western, 72
 Philadelphia, Baltimore & Washington, 184
 Philadelphia Company, 52, 64, 92
 Philadelphia, Morton & Swarthmore (Elec.), 20
 Philadelphia Rapid Transit, 20
 Philippine Railway, 168
 Pigeon Creek, 6
 Pittsburg, 20
 Pittsburg & Lake Erie, 26, 168, 176
 Pittsburg, Cincinnati, Chicago & St. Louis, 168
 Port Angeles & Olympia, 130
 Port Angeles & Peninsula, 130
 Portland & Rumford Falls, 84
 Providence Securities Company, 184
 Pullman Company, 100, 138
 Quakertown & Eastern, 176
 Qu'Appelle, Long Lake & Saskatchewan, 46, 76
 Quebec & Lake St. John, 162
 Quebec, New Brunswick & Nova Scotia, 40
 Railroad Securities Co., 116
 Reading Company, 6
 Rensselaer & Saratoga, 52
 Rhode Island Securities Co., 162, 184
 Richmond, Fredericksburg & Potomac, 176
 Rio Grande, Sierra Madre & Pacific, 138
 Rock Island Company, 6, 40, 76, 138
 Rome Railway & Light, 168
 Rumford Falls & Rangeley Lakes, 76
 Rutland R. R., 138
 St. Lawrence & Adirondack, 162
 St. Louis & North Arkansas, 46
 St. Louis & San Francisco, 138
 St. Louis & Suburban (Electric), 12
 St. Louis, El Reno & Western, 32, 52
 St. Louis, Iron Mountain & Southern, 52
 St. Louis Southwestern, 40, 100
 Sandusky, Fremont & Southern (Electric), 130
 San Francisco, Oakland & San José (Elec.), 20
 Santa Fe, Raton & Eastern, 116
 Seaboard Air Line, 26, 48, 64, 168
 Sioux City, Homer & Southern, 100
 South & West, 26
 Southern, 20, 32, 70, 130, 135, 162
 Southern Indiana, 108
 Southern Pacific, 46, 52, 84, 92, 116, 138, 168
 Southern Railway in Mississippi, 138
 Spokane & Inland, 154
 Stillmore Air Line, 40
 Tennessee Coal, Iron & Railroad, 6
 Texas Central, 124
 Texas-Mexican, 6
 Thomasville & Denton, 108
 Toledo & Ohio Central, 108
 Toledo, Ann Arbor & Detroit (Electric), 58
 Toledo, Peoria & Western, 84
 Toledo, St. Louis & Western, 12, 138
 Toledo & Western (Electric), 6, 12
 Toluca & San Juan, 176
 Toluca & Tenango, 176
 Toluca, Tenango & San Juan, 176
 Tonopah & Goldfield, 92, 108
 Transylvania, 20
 Troy & New England (Electric), 58
 Underground Electric of London, 26
 Union Pacific, 26, 52, 64, 70, 76, 108, 138, 154
 United Railways & Electric Company of Baltimore, 26
 United Railways of St. Louis, 12
 United Railways of Yucatan, 92
 Utah Light & Railway Co., 135
 Velasco, Brazos & Northern, 20, 76, 116
 Virginia & Carolina Coast, 116
 Virginia & Southwestern, 6, 70, 130
 Wabash, 6, 20, 52, 70, 116, 124, 184
 Wabash-Pittsburg Terminal, 26
 Wadley & Mt. Vernon, 40
 Wadley Southern, 40, 58
 Washington & Canonsburg (Electric), 92
 Washington, Baltimore & Annapolis (Electric), 108
 Washington Terminal, 116
 West Jersey & Seashore, 64
 Western Pacific, 168
 White River Valley, 76
 Wiscasset, Waterville & Farmington, 84, 162
 Wisconsin Central, 92
 Worcester Railways & Investment Co., 124
 Yellow River, 40